

The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALER - MANUFACTURER



Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3072
VOL. CXXIX

DECEMBER 24, 1938

Annual Subscription (with
Diary) 20/- Single Copies 9d.

The Prime Minister,

The Right Honourable NEVILLE CHAMBERLAIN, P.C.
speaking at Guildhall on November 9th, said:

" Christmas is coming and I see no reason why we should not prepare ourselves for the festive season in a spirit of cheerfulness and confidence I say, in this brightening atmosphere, let us not conjure up troubles which may never arise. Let us rather set about our several tasks with a determination that the New Year shall be more prosperous and happier than the old."

To all our friends in pharmacy we send the old, old wish, "A Happy Christmas and a Bright New Year" and the assurance of our constant endeavours, in our trading relations with them, to bring to fruition the bright hopes of our Premier.

BURGOYNE BURBIDGES & CO. LTD

LONDON E.6.

EST. 1741.

AQUÆ AROMAT. CONC. -	-	Full strength, stable, do not require filtering
CATAPLASM KAOLIN -	-	Maximum therapeutic value due to high anhydrous Glycerin content
EXT. CASC. SAGR. LIQ. -	-	From mature bark
EXT. GLYCYRRH LIQ. -	-	Strictly B.P. manf.
INF. GENT. CO. CONC. -	-	Full odour of fresh peel—free from deposit
INF. CALUMB. CONC. -	-	Bright, and remains bright on standing
HOUSEHOLD EMBROCATION		Effective, does not spill on application
PIL. FERR. CARB. - - -	-	Non-cracking, iron content does not deteriorate
SYRUP, EASTON'S - - -	-	Always freshly made, maximum keeping properties
SYR. HYPOPHOSPH. CO. -	-	Brilliant, free from deposit
SYR. GLYCEROPHOSPH. CO. -	-	Brilliant, stable colour, fine flavour
SYR. FERR. PHOSPH. CO. -	-	Full Salts content, yet stable and brilliant
TINCT. NUC. VOM. - - -	-	Non-opalescent, retains clarity
UNGUENTA - - - -	-	Milled, smooth, cold filled

BULK DRUGS

DISINFECTANTS

TOILET PREPARATIONS

PACKED PHARMACEUTICALS



**WRIGHT, LAYMAN
& UMNEY Ltd.**

"A Reputation that is sound and enduring is more valuable than a passing success however spectacular, and it cannot be built up in a day."
For 50 years a policy of supplying only the finest pharmaceutical preparations at reasonable prices has been consistently maintained.

SOUTHWARK

LONDON

Christmas 1938...

WILLOWS, FRANCIS BUTLER & THOMPSON

*extend Seasonal
Greetings to the
trade*



WHOLESALE & EXPORT DRUGGISTS, MANUFACTURERS OF PHARMACEUTICAL PREPARATIONS

•
WILLOWS GALENICALS

**MADE FROM CHEMICALLY AND
PHYSIOLOGICALLY TESTED DRUGS**

Prompt Deliveries Guaranteed

•
73-75 & 89a SHACKLEWELL LANE, DALSTON

Telephone : CLISSOLD 6361 (4 lines)
Telegrams: "FORTY, HACK, LONDON."





*With best wishes
for Xmas and the
New Year
1939*

J. E. Cross

J. E. CROSS & CO. LTD.
Marketing and Sales Promotion
Brettenham House
Lancaster Place, London, W.C.2
Telephone: Temple Bar 6786

DOES YOUR LINE NEED BETTER MARKETING?

ARTHUR BERTON LTD.

"BRITANNIA HOUSE"
256/260 Old Street, London, E.C.1

have been, for over

75 years,

specialists in the

manufacture of

**SURGICAL
DRESSINGS**

ZEAL

Clinicals

**The Choice
of Experts**

**BRITISH
MADE**

**NO HIGHER
IN PRICE THAN
NONDESCRIPT
MAKES**

Also Household, Bath
and Works Thermometers,
the best of their kind

G. H. ZEAL LTD.
LOMBARD RD., MORDEN RD.,
LONDON, S.W.19

Phone: Liberty 2283-4-5



**WANIE
BLADES**

**KEEN EDGES
KEEN PRICES**

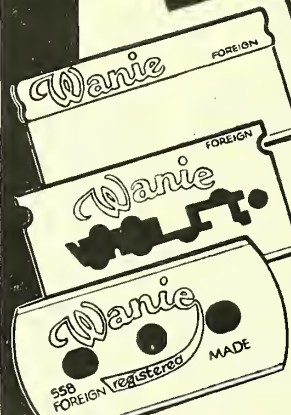
*Your profit is 33½ to 45%
every time you hand a
customer a packet of
Wanie Blades.*

THREE HOLE TYPE
8/- gross. Retail 1 for 1/-

AUTO TYPE
9/- 100. Retail 10 for 1/8

EVER READY TYPE
9/- 100. Retail 10 for 1/8

DISPLAY SHOWCARDS
FREE TO ALL STOCKISTS



Dealers and Wholesalers
should write for FREE
SAMPLES and Trade Terms.

LONDON & PROVINCIAL FACTORS LIMITED
146, THEOBALDS ROAD, LONDON, W.C.1.
and at 16 Withy Grove, Manchester.



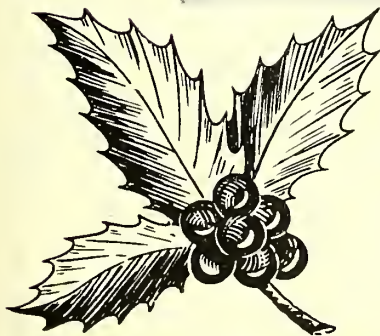
This showcard, described by a chemist as "The most attractive I have ever seen," will be sent gladly to any chemist stocking Crookes' Halibut Oil.



Yes, we keep him bonny on -
Crookes'
Halibut Oil



*a drop instead of a spoonful
of nauseating cod liver oil*



As 1938 draws to a close, the Crookes Laboratories take this opportunity of thanking their many friends in the retail and wholesale trades for their close co-operation and support during the year.

In expressing their best wishes for A PROSPEROUS AND HAPPY NEW YEAR, they affirm their own staunch and unqualified support—in particular, in upholding the aims and objects of the Chemists' Friends Association of which they are founder members.

THE CROOKES LABORATORIES (British Colloids Ltd.) **PARK ROYAL, LONDON, N.W.10**

Telephone : Willesden 6313 (5 lines)

Telegrams : Collosols, Harles, London

T.G.S.



BY APPOINTMENT

Schweppes

SUGAR-FREE GINGER ALE
SUGAR-FREE TONIC WATER. . .
SUGAR-FREE SPARKLING LIME

Approved by the Institute of Hygiene and the Diabetic Association.

These beverages have been analysed by the Institute of Hygiene and found "free from sugar and metallic contaminants." The analyses shown have been accepted by the Medical Advisory Council of The Diabetic Association and recommended for diabetic and obese subjects.

ANALYSIS SHOWED THE FOLLOWING RESULTS:

<i>Schweppes Sugar-Free Dry Ginger Ale</i>	<i>Ordinary Dry Ginger Ale</i>	<i>Schweppes Sugar-Free Tonic Water</i>	<i>Ordinary Tonic Water</i>	<i>Schweppes Sugar-Free Sparkling Lime</i>	<i>Ordinary Sparkling Lime</i>
Carbohydrates absent	6.2%	Carbohydrates absent	9.1%	Carbohydrates absent	11.8%
Protein absent	absent	Protein absent	absent	Protein absent	absent
Fat absent	absent	Fat absent	absent	Fat absent	absent

FOR FREE SAMPLES WRITE TO: MESSRS. SCHWEPPE LTD., 1 CONNAUGHT PLACE, LONDON, W.1

ALWAYS IN GREAT DEMAND

You can stock and sell Owbridge's Lung Tonic with the greatest confidence



COST

1 gross 1/3 size	...	...	£6 . 12 . 0
1 doz. 3/-	..	...	£1 . 7 . 0
			<u>£7 . 19 . 0</u>

Terms : C.W.O. Carriage Paid.

SELLING PRICE

1 gross 1/3 size	...	...	£9 . 0 . 0
1 doz. 3/-	..	...	£1 . 16 . 0
			<u>£10 . 16 . 0</u>

Showing Profit of £2.17.0

DIRECT OR THROUGH YOUR WHOLESALE

W. T. Owbridge, Ltd., The Laboratory, Hull



EVERY BOTTLE CARRIES A GOVERNMENT STAMP

INDEX TO ADVERTISERS

Acton Pill & Tablet Co., Ltd. (Back and Kidney Pills, &c.) Leader Page	Campbell, J. D. (Nicotine Insecticides) iv	Eno, J. C., Ltd. (Greetings) 11
Association of Manfg. Chemists, Ltd. Col. Supp.	Carnegie Bros., Ltd. (Ephedrin and Salts) iv	Fairechild Bros. & Foster, Inc. (Pano-pepton) Leader Page
Bateson Bros. (Bottles) 16	Cartwright, W. B., Ltd. (Elixir Jaffol) 5	Fromm, Herbert (Morf Specialities) viii
Bayer Products, Ltd. (Phenacetin) Leader Page, i	Chemist and Druggist, The Leader Page, vii	Gardner, W., & Sons (Glos.), Ltd. (Machinery) vi
Beatson, Clark & Co., Ltd. (Powder Bottles) vi	Christy, T., & Co., Ltd. (Cachet Machines) 18	George, Ernest J., & Co. (Valuers, &c.) Col. Supp.
Bell, John, Hills & Lucas, Ltd. ('Triad' Brand Cherry Malt & Oil) ...Leader Page	Cox, A. H., & Co., Ltd. (C.O.B. Lines) 8	Guest, Thos., & Co., Ltd. (Vox Bronchial Pastilles) 18
Berton, Arthur, Ltd. (Surgical Dressings) 2	Creban Manfg. Co. (Crepe Bandages) 10	Hampden Residential Club. Col. Supp.
Blackie, R. (Eyebright Lotion, &c.) ... 6	Critchley, C. A., & Co., Ltd. ('Pneumoplast' Kaolin Poultice, B.P.) ... 16	Hanson, W., & Sons, Ltd. (Bottles) ... 16
Blythe, W., & Co., Ltd. (Epsom Salts, &c.) v	Crookes Laboratories (Halibut Liver Oil) 3	Harrison, A., & Sons, Ltd. (Greetings) 13
Burgoynes, Burbidges & Co., Ltd. (Greetings) Front Cover	Cross, J. E. (Greetings) 2	Harwoods Laboratories, Ltd. (Sero-calcin Tablets) Leader Page
Burrough, James, Ltd. (S.V.R. for Tinctures) Leader Page	Davenport, J. T., Ltd. (Chlorodyne) ... 12	Hedley, T., & Co., Ltd. (Glycerine) ... 16
Burroughs Wellcome & Co. (Sulphonamide-P) 17	Dearborn (1923), Ltd. (Mercolized Wax) 13	Howard, Lloyd & Co., Ltd. (Pills, Tablets, &c.) iv
	Denver Chemical Manfg. Co. (Antiphlogistine) 12	
	Dudley & Co., Ltd. (Glass Counters) 16	

[Continued overleaf.]



Made by the
makers of
MOORLANDS

NEW THIS SEASON

now a proved seller for all time

First introduced to the trade at this year's Chemists' Exhibition, Elixir Jaffol has been an instantaneous success. We fully anticipated the present big sales, for Elixir Jaffol is a quick selling, profit making winter line, of proved efficacy.

Elixir Jaffol gives the equivalent in vitamin potency of Finest Cod Liver Oil and Fresh Orange Juice in a Glucose and Sucrose Syrup. Elixir Jaffol is popular with children, who love its sweet orange flavour.

Packed in attractive carton to retail at 1/6. Excellent display aids.

ELIXIR JAFFOL

● Send for complete list of all Cartwright's big profit winter lines. Attractively packed and famous for their high standard of efficacy.



W. B. CARTWRIGHT LTD • RAWDON • LEEDS

INDEX—cont.

Jacquetil Fabrics, Ltd. ('Dawn' Face Cloths)	12	Orridge & Co. (Valuers, &c.) ...Col. Supp.		Surgical Hosiery Co., Ltd. (Elastic Hosiery)	10
Jefferson & Son ("Hernicura," Trusses, &c.)	10	Owbridge, W. T., Ltd. (Lung Tonic) ..	4	Suttley & Silverlock (Chemists' Printers)	9
London & Provincial Factors, Ltd. (Wanie Blades)	2	Perken, Son & Co., Ltd. (Clinical Thermometers)	10	Thomas & Linton, Ltd. (Everhot Bags, &c.)	16
Matthews, D., & Son, Ltd. (Shop-fittings)	Col. Supp.	Phil-Sano, Ltd. (Aspirin Tablets)	iii	Tilbury, W. R., & Son (Toothbrushes) ..	12
Maund, F., & Berg, E., Ltd. (Show-cases)	Leader Page	Potter & Clarke, Ltd. (Greetings) ...	15	Tokalon, Ltd. (Poudre Tokalon, &c.) ..	16
Midgley & Parkinson, Ltd. (Yeast Preparations)	16	R.P.W. Pharmacal Products, Ltd. (Aspirin Tablets)	14	Town Talk Polish Co. (Liquid Silver Polish)	14
Mills, H., & Sons, Ltd. (Shopfittings) ..	16	Robinson & Sons, Ltd. (Mene Towels) ..	10	Wagner, R. V. (Dry Bottle Caps)	14
Monsanto Chemicals, Ltd. (Chemicals) ..	iii	Roura & Forgas (Quicksilver)	v	Walden & Co. (Nufix), Ltd. (Nufix) ...	9
Mundet Cork Products, Ltd. (Corks and Stoppers)	14	Rudduck & Co. (Shopfittings) ...Col. Supp.		Washington Chemical Co. (Cream of Magnesia)	ii
Myers, L., Ltd. Col. Supp.		Sangers, Ltd. (Glymiel Jelly)	7	Wehster, Isaac, & Sons, Ltd. (Stainless Steelware)	vi
National Glass Works (York), Ltd. (Bottles)	iv	Schweppes, Ltd. (Sugar-Free Ginger Ale, &c.)	4	White, J. F., & Co., Ltd. (Kompo) ...	16
National Pharmaceutical Union (Greetings)	7	Scintillating Sign Service	iv	Willows, Francis, Butler & Thompson, Ltd. (Greetings)	1
Norwegian Cod Liver Oil	ii	Scott & Bowne, Ltd. (Hand Cream) ..	16	Winrabe, M. Col. Supp.	
		Scurr, C. A. (Greetings)	14	Wright, Layman & Umney, Ltd. (Bulk Drugs, Disinfectants, &c.)	Cover ii
		Smith, T. & H., Ltd. (Alkaloids)	v	Zeal, G. H. (Clinical Thermometers)	2
		Southalls (Birmingham), Ltd. (Sanitary Towels)	10		
		Speedy D. & P., Ltd. Col. Supp.			
		Sterns, Ltd. (Paraffinum Liquidum B.P.)	ii		

EYES RIGHT!

Two attractive lines
yielding good profits

Samples and quotations from

ROBERT BLACKIE

SHEN WORKS

MELON ROAD - PECKHAM

LONDON - S.E.15



AND 'ACCURACY'

EYEBRIGHT LOTION

FOR DAILY OCULAR HYGIENE

In blue screw capped bottles with
attractive labels.

TELEGRAMS:

TELEPHONES:

"USHENSPUNA, LONDON." RODNEY 3874/5/6

NOW is the time to make good profits on Glymiel Jelly

There's a big trade to be done in Glymiel Jelly this winter—be sure you get your full share.

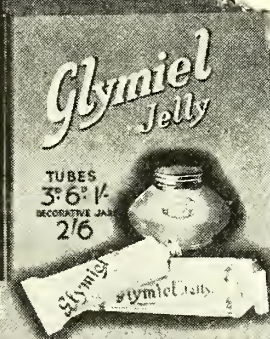
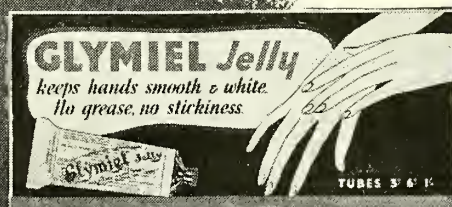
Make strong counter and window displays and so link up with the forceful Glymiel press advertising and the popular Broadcast Programmes that are making an ever-widening circle of regular Glymiel users.



Sole Wholesale Agents:
Sangers
LIMITED

Proprietors: Osborne, Bauer & Cheeseman Ltd.
42 Hampstead Road, London, N.W.1.

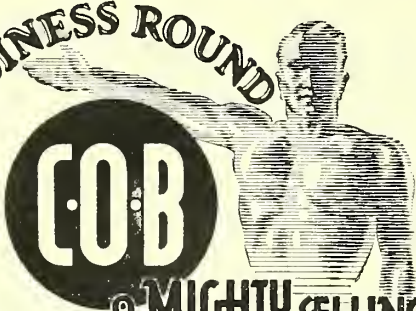
These striking,
richly - coloured
display pieces
and showcards
are at your
service FREE—
send for a
selection
now!



258 EUSTON ROAD, LONDON, N.W.1 Telephone: EUSTON 5010

Associated Companies and Branches: 7-13 CLERKENWELL ROAD, E.C.1, BELFAST, BIRMINGHAM, BOURNEMOUTH, BRISTOL, CARDIFF, LIVERPOOL, PLYMOUTH, NEWCASTLE

BUILD YOUR BUSINESS ROUND



COB

**A MIGHTY SELLING
AND ADVERTISING
SCHEME TO ASSIST
THE PHARMACIST**
devised by
COX of Brighton

C - O - B

CHEMISTS' OWN BRAND

**C - O - B
PACKAGING**

An outstanding method of Packing "OWN NAME" Pharmaceutical Products in modern and uniform style, which brings Repeat Business and establishes Goodwill.

**C - O - B
ADVERTISING**

A Sales-creating movement which includes schemes of Direct Advertising and facilities for Special Displays to increase the Sale of "OWN NAME" Products.

write NOW for full details to -

ARTHUR H. COX & CO. LTD., BRIGHTON 7

Friendship...

is more than ever the foundation of the Season's greetings which the Chairman, the Executive and the Officers of the N.P.U. extend to every member, and also to the ever increasing number of manufacturers who are supporting the C. F. Movement.

A Prosperous New Year

is assured to every chemist who gives a full measure of Co-operation to C. F. manufacturers, and that is why the Chairman, the Executive and Officers of the N.P.U. find it unnecessary to say more in regard to the New Year than "Support the C. F. Movement."

issued by ...

**THE NATIONAL
PHARMACEUTICAL
UNION**



4 & 5 QUEEN SQUARE, LONDON, W.C.1

Suttley & Silverlock

Branch of Kelly's Directories Limited

SPECIALISTS IN PRINTING FOR CHEMISTS

ANDOVER, HANTS

London Office • 2 Arundel Street, Strand, W.C.2
Telephone Temple Bar 3464 (9 lines)

The production of every
type of printed matter used
in the Medical and Pharma-
ceutical professions is still
our speciality. Our service,
backed by an organisation
with more than 100 years'
experience of this very
special branch of
printing, is at your disposal



It has recently come to our knowledge
that a rumour is being circulated that
we have disposed of our Label business

THIS RUMOUR IS ENTIRELY UNFOUNDED

APPRECIATION...

Last year we said we confidently looked forward to even bigger Nufix sales in 1938. We have pleasure in stating that Nufix sales in 1938 were bigger than ever, due to the unstinted co-operation of the trade. Once again, we predict that the coming year will break all sales records for Nufix. We wish all our friends old and new a Happy Christmas and a Prosperous New Year.

H. Walden

MANAGING DIRECTOR

WALDEN & CO. (NUFIX) LTD., NUFIX WORKS, ROOKERY WAY, LONDON, N.W.9

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to
measure we maintain a 24
hour service.

:: BODY BELTS ::
TRUSSES :: SUNDRIES

Permit us to quote you

SURGICAL HOSIERY CO. LTD.

Russell Street :: NOTTINGHAM

Telephone No. : 75903.

Telegrams : SURVEAL, NOTING

SOUTHALLS SAN TOWELS

WRAPPED in plain brown
paper parcel—with carrying
string and . . .
PACKED IN CARTONS
for you to display.

"CELTEX" SOLUBLE

6 for 6d. and 12 for 1/-
1/2 · 1/6 · 2/-

ALSO MAKERS OF ORIGINAL 'K' SAN TOWELS

'CRÉBAN' B.P.C

CREPE BANDAGES
ABDOMINAL BINDERS

BACKING for ADHESIVE PLASTERS

A super bandage
unsurpassed for
quality and elas-
ticity at prices
showing greater
profits than any
other make. Ob-
tainable from your
usual Wholesaler.

All cloth woven and finished in our works



CRÉBAN MANUFACTURING CO., WEST GATE MILL, MORECAMBE



MENE
SANITARY TOWELS
**IN CONSTANT DEMAND
FOR OVER 40 YEARS**

ROBINSON & SONS LTD., CHESTERFIELD

"HERNICURA" TRUSSES

(REGISTERED No. 254807)

**AND SURGICAL APPLIANCES
WILL BUILD UP YOUR TRUSS TRADE**

DISTRICT SOLE RIGHTS GIVEN

Write for Illustrated Price List to the Sole Proprietors:

JEFFERSON & SON

"HERNICURA" TRUSS & SURGICAL APPLIANCE SERVICE
ETON RD., WOOLWICH, LONDON, S.E.18 Phone: Woolwich 0607

THE "MATER"

CLINICAL REGD.

The position of the Mercury column is at once
perfectly plain Red markings above 99.4.

**ALL TYPES OF
CLINICAL
AND OTHER
THERMOMETERS**

PERKEN, SON & CO. LTD.

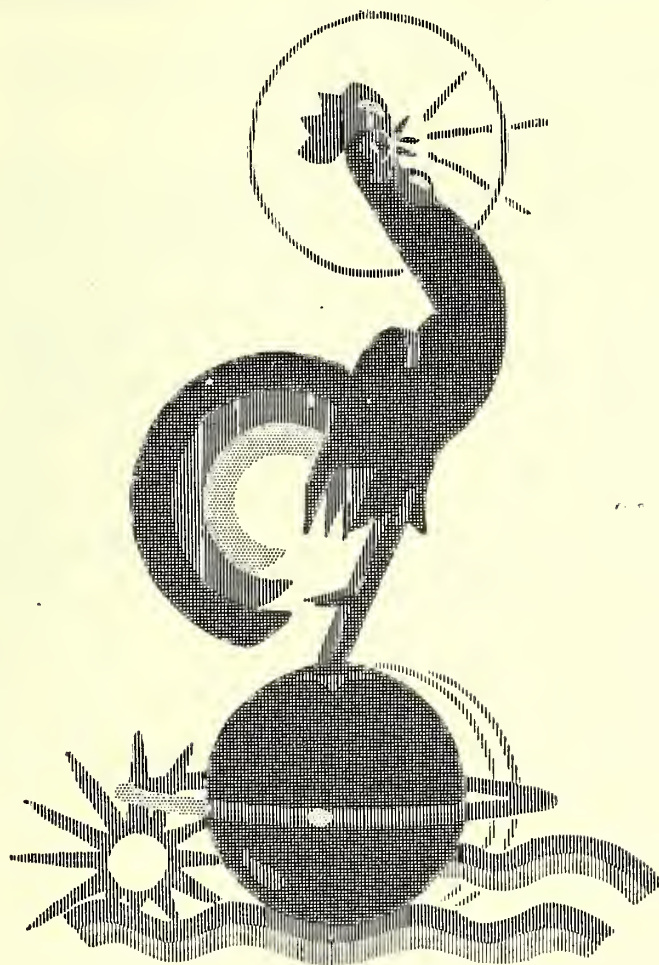
(ESTABLISHED 1852)

Price List on Application:

**94 HATTON GARDEN,
LONDON, E.C.1**

Te'ephone : 0724 Holborn
Telegrams : "Optimus, Smith, London"





*The Directors of J. C. ENO Limited
send you their Sincere Christmas
Greetings and wish you Success and
Prosperity throughout the New Year*

J. C. ENO LTD.

160 PICCADILLY, LONDON, W.1

Dr. J. Collis Browne's Chlorodyne
and
The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's
CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

Sole Proprietors:
J. T. DAVENPORT LTD.



Union St.,
London, S.E.1

STOCK—

'DAWN' RAVELPROOF
FACE CLOTHS

—and increase your face cloth business

'Dawn' Ravel-proof Face Cloths are made in three distinct qualities retailing at 4d., 6d. and 9d. The Super 'Dawn'—a larger size—retails at 1/-. All produced in assorted colours, attractively packed in "Cellophane" and ready to hand over. A face cloth that is different and never gets stinky. Obtainable from your usual Wholesaler.

JACQUESIL FABRICS LTD.
105/107 Princess St., MANCHESTER

London Agent: G. H. Bolton, Oxford Hse., Falcon Sq., Aldersgate St., E.C.1

THE
"Lady Nicoline"
Regd.
A popular Ladies' Brush



HARD WHITE
HARD YELLOW

"Lady of Romance"

W. R. TILBURY & SON
47 Frampton Park Rd., London,
Est. 1880 E.9

Antiphlogistine
Brand Dressing

HUMAN & VETERINARY
MADE IN ENGLAND

Write for Special Quantity Terms

The Denver Chemical Mfg. Co., Carlisle Road, London, N.W.9

**NEW . . . an effective Show-card
to encourage the Sales of**

Show it and take advantage of constant advertising and the handsome profit now available.

16/- 28/- 2/- 3/6
per doz. retail

DEARBORN (1923) Ltd.

TELEPHONE: HOLBORN 9669

37 GRAY'S INN ROAD · LONDON · W.C.1

MERCOLIZED WAX



Excellent Show Material and Counter Booklets on request.

A BONUS of 10% on £3 assorted orders is offered for a display of MERCOLIZED WAX.



'TOWN TALK' advertising in her favourite magazine has made her one of your most regular customers. Regular, because once she's tried 'TOWN TALK' Silver Polish she'll use no other. And remember she's not the only one, for 'TOWN TALK' Silver Polish is consistently advertised in National Daily News-

papers and high class Women's Journals, the combined nett sales circulation of which is over 15,000,000 monthly. Therefore new users are constantly increasing.

Display these repeat order profit-bearing lines, and get your share of this increasing business.

ORDER DIRECT OR FROM

MANCHESTER:

D. Mawdsley & Co.
James Woolley Sons & Co., Ltd.

LEEDS:

Goodalls (Leeds) Ltd.

LEICESTER:

E. H. Butler & Son.

LONDON:

Brooks & Warburton, Ltd.
May, Roberts & Co., Ltd.
Butler & Crispe

LIVERPOOL:

Ayrton, Saunders & Co., Ltd.

THE TOWN TALK POLISH CO., MANCHESTER, 10

TAPERED, PYRAMID, DOMED AND FLANGE **CORKS** COMPOSITION AND BAKELITE **STOPPERS**

THE MOST COMPETITIVE MANUFACTURERS IN
THIS COUNTRY

MUNDET CORK PRODUCTS, LTD.

20/21 BERMONDSEY SQUARE, LONDON, S.E.1

Telegrams: MUNDETCOMP, BERM, LONDON

Telephone: HOP 2043-6

WAGNER'S DRY BOTTLE CAPS

BEST IN QUALITY & APPEARANCE
PROMPT DELIVERIES



33 BROOKE ST., LONDON, E.C.1 Tel. Holborn 5090



**From the manufacturers of
those world-famous remedies—**

POTTERS ASTHMA CURE
POTTERS CATARRH PASTILLES

*We also wish you — and can help you in
making 1939 — a Prosperous New Year!*

POTTER & CLARKE LTD.

60-64 ARTILLERY LANE, LONDON, E.1

77 DANTZIC STREET, MANCHESTER, 4

Phone : BISHOPSGATE 4761 Grams : "Horehound, Phone, London"

Phone : Blackfriars 8734

Grams : "Horehound, Manchester"



**POUDRE
TOKALON**

THE MOST POPULAR FACE POWDER IN THE WORLD
Always heavily advertised. Easy to sell.
All products guaranteed.
TOKALON LTD., Chase Road, London, N.W.10

Pacovins In Pots 6d., 1/6 & 3/-
HAND CREAM

Sole Distributors: **SCOTT & BOWNE, Ltd., 10 Stonecutter St., E.C.4**

MARRSONA

YEAST FOR ANÆMIA

MIDGLEY & PARKINSON, LTD.
Warren Works, Pudsey, Leeds

THOMAS & LINTON, LTD.
4 GRAY'S INN ROAD, LONDON, W.C.1
Telephone: Holborn 5518
Everhot Bags,
Canda Products, Iodotabs, Ephedrol,
Litesome Belts.
Deliveries from London Stock

BOTTLES
For PACKERS of LOW PRICED LINES

PALE GREEN, BLUE WHITE, OILS, INKS,
VARNISHES, AMMONIA, SAUCE, Etc.

Send for samples and prices
Manufacturers: **BATESON BROS. LIVERPOOL, 7**

'PNEUMOPLAST'
KAOLIN POULTICE B.P.

A splendid seller, well packed in enamelled tins
with handle. Write for prices and details.
Manufactured by
C.A. CRITCHLEY & CO. LTD., Manufacturing Chemists. BLACKBURN

GLYCERINE

The Purest Quality on the Market. Produced by
THOMAS HEDLEY & CO. LTD., TRAFFORD PARK
Chemically Pure B.P. Pale Straw.

Sole Distributors:
FREDK. BOEHM LTD., 17 Jewry Street, London, E.C.3.
and 140 West George Street, Glasgow.

BOTTLES

AMMONIA OVALS
MEDICALS, POISONS, PANELS,
VARNISHES, OR ANY OTHER KIND
CAN BE BOUGHT CHEAPEST FROM THE MAKERS
Wm. HANSON & SONS Ltd. ROSEGROVE, BURNLEY.

WE HAVE BEEN FITTING PHARMACIES
FOR OVER 50 YEARS IN ALL PARTS OF
OUR EMPIRE.

H. MILLS & SONS Ltd.
CHEMISTS' SHOPFITTERS
AND SHOPFRONT MANUFACTURERS
163-5 OLD STREET, LONDON, E.C.

Let us design your Pharmacy.
Always a Large Stock of New and Second-
hand Fittings.

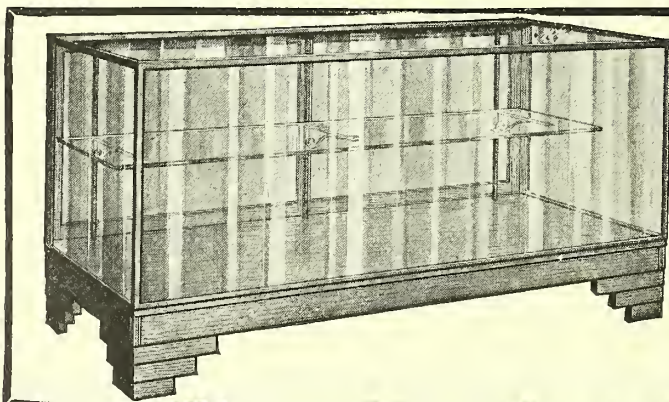
SEND US YOUR ENQUIRIES.

KOMPO
FOR
COLDS

Wholesale Prices
1/3 Size
11/6 per dozen net
3/- Size
27/6 per dozen net

Carriage Paid Gross Quantities
or equivalent.

Manufactured only by
J. F. WHITE & CO., LTD., Chemists
BENSON STREET, LEEDS 7
Counter Bills free on application



BUY DIRECT from THE ACTUAL MAKERS

No. C.D. 5260R. Glass Counter. 6 ft. long
× 3 ft. high × 2 ft. deep. Glazed 1/4-in. drawn
plate glass, sliding glass doors at back. One
row of 12-in. glass shelves.

Polished Light Oak, £8.15.0
Mahogany finish . . . £9.0.0

Carriage extra

May we send you our latest 84-page Catalogue
No. CD 1820?

DUDLEY & COMPANY LTD.
451 Holloway Road, London, N.7
City Showrooms: 65 FORE STREET E.C.

Progress in Chemotherapy

TRADE MARK **'TABLOID'** BRAND **SULPHONAMIDE-P** (SULPHANILAMIDE)

Combines the chemotherapeutic properties of the drug with the precision, purity and dependability for which 'TABLOID' Products are notable.

'TABLOID' Sulphonamide-P is well established amongst medical practitioners and is in firm and steady demand.

Bottles of 25 products, 15/6 per doz. Bottles of 100 products, 48/- per doz.

ALSO AVAILABLE

TRADE MARK **'WELLCOME'** BRAND

SULPHONAMIDE-P

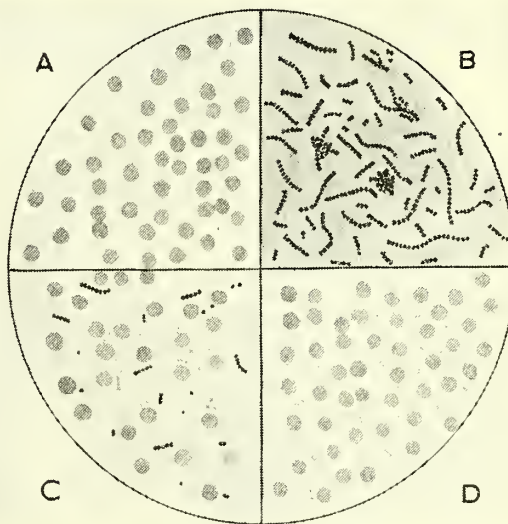
Bottles of 25 grammes, 21/- per doz.

„ „ 100 grammes, 66/- per doz.

London Prices to the Trade (subject)

ACTION OF 'TABLOID' SULPHONAMIDE-P ON HÆMOLYTIC STREPTOCOCCI IN THE HUMAN BLOOD

- Normal blood.
- Twelve-hour growth of hæmolytic streptococci in blood-broth inoculated from a plate culture. Note complete hæmolysis of the blood.
- Smear examined five hours after addition of 'Tabloid' Sulphonamide-P (Sulphanilamide). Originally this smear was from the same plate culture as B and showed as many streptococci. It now shows only slight hæmolysis, a few streptococci only and some in course of destruction (Gram-negative).
- Smear from same specimen twenty-four hours after addition of 'Tabloid' Sulphonamide-P shows almost complete destruction of streptococci and absence of hæmolysis.



BURROUGHS WELLCOME & CO., LONDON

G 2098

COPYRIGHT

SUPREME QUALITY IS BURROUGHS WELLCOME QUALITY

B B

CHRISTY'S CACHET MACHINES



Various types in stock

Prices from
4/6 each

Write for illustrated
leaflet

**THOS. CHRISTY
& CO., LTD.**

4/12 OLD SWAN LANE
LONDON, E.C.4

The Outstanding Bronchial Pastille of Recognised Merit and Popularity

VOX BRONCHIAL PASTILLES



ATTRACTIVE DISPLAY MATTER

8-lb. lots 2/6 per lb. 14-lb. lots 2/3 per lb. 28-lb. lots 2/- per lb.
With Free 2-lb. Counter Glass Show Jar.

ATTRACTIVE WINDOW DISPLAY MATTER

12 doz. 2-oz. Cartons, 2 doz. 4-oz. Cartons, free per 28 lb. The
formula is printed on every carton. Special quotations for 56-lb.
and 1-cwt. lots.



VOX PASTILLES in Tins

Small 4/6 per doz., 48/- per gross. Large 8/6 per doz., 96/- per gross

THOS. GUEST & CO. LTD.

Manufacturing Chemists, CARRUTHERS ST., MANCHESTER 4 London Warehouse: 15 & 16 Jewry St., E.C.

The CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

The official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in Overseas Dominions

Published Weekly at

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London"

Telephone: Central 6565 (10 lines)

BRANCH OFFICES

MANCHESTER: 4 CANNON STREET (TEL.: BLACKFRIARS 3052)
SHEFFIELD: 54 FOSTER'S BUILDINGS, HIGH STREET (TEL.: 22458)
GLASGOW: 19 WATERLOO STREET (TEL.: CENTRAL 2329)
BIRMINGHAM: 111 NEW STREET (TEL.: MIDLAND 2921)

AUSTRALIA: 19 QUEEN STREET, MELBOURNE, C.I.
NEW ZEALAND: 55A SHORTLAND STREET, AUCKLAND
PARIS: 155 AVENUE DE WAGRAM, XVII^e (TEL.: ETOILE 19-79)

News of the Week

Import Duties Advisory Committee Notice

The Import Duties Advisory Committee give notice of the following applications:—For the addition to the Free List of ouricury wax; alloys of metal, unwrought, in blocks, ingots, cakes, bars and slabs, containing more than 50 per cent. by weight of bismuth and more than 15 per cent. by weight of lead. Any representations which interested parties may desire to make in regard to these applications should be addressed in writing to the Secretary, Import Duties Advisory Committee, Shell-Mex House, Strand, London, W.C.2, not later than January 14, 1939.

Customs Notices to Importers

H.M. Customs have published two pamphlets giving information and instructions to importers in connexion with (1) the Anglo-American Trade Agreement. This gives details of the exemptions and revised rates of import duties that will be levied on goods of American origin. The second pamphlet deals with Imperial Preference and includes details of requirements on Certificates of Origin, a list of countries to which Imperial Preference applies and other information useful to the trade. Copies of these pamphlets may be obtained free on application to H.M. Customs and Excise, Custom House, London, E.C.3, quoting reference numbers: Notices 394 and 27A.

Proprietary Articles Trade Association

ADDITIONS TO THE PROTECTED LIST.—J. E. Ellis, Ltd., Daisy "20" (counter display carton containing twenty Daisy powders, each powder packed in an individual envelope), 3s. 4d., 24s. doz. (This new pack is in addition to existing 2s. 9d. size, which contains twenty powders.) Montecatini Spa Products, Ltd. (sole importers for British Empire, excluding Canada), Montecatini Tamerici salts, 2s. 6d., 20s. doz.; Montecatini Regia water, 2s., 16s. doz.

ALTERATIONS.—Allied Laboratories, Ltd. (distributors, J. C. Gambles & Co., Ltd.), Additional 10 per cent. discount formerly allowed on two doz. Femilan brand tablets withdrawn; bonus of thirteen to doz. now allowed on minimum orders of one doz. G. W. Harrison, Ltd., Orders, value 22s. 6d., of Harrison's Reliable rat poison, now subject to discount of 10 per cent. to retailers. H. R. Napp, Ltd., Window-display bonus terms for Normacol withdrawn. Oatine Co., Powder base (handbag boxes), 1s. 3d., 11s. 3d. doz., are subject to usual window-display allowances.

DELETIONS.—H.K. Laboratories, Ltd., Antemin brand tablets, 3s., 27s. doz.; Pigmentan sun-tan cream, 2s. 6d., 20s. doz.; 1s., 8s. doz.; 6d., 4s. doz.; lotion, 1s. 6d., 12s. doz.; Hermed herbal ointment, 1s. 3d., 11s. 3d. doz. Mrs. Pomeroy, Ltd., all preparations.

Bradford

LOCAL A.R.P. SCHEME EXPLAINED.—Reporting at a meeting held recently on local measures taken by pharmacists in connexion with Air-Raid Precautions, Mr. Norman Best

(secretary, Pharmaceutical Society Branch) said there were seventy-three volunteers to date, but all were members within easy access of Bradford. Under an official scheme, planned in conjunction with the Medical Officer of Health, who has charge of local first-aid arrangements under A.R.P., classes were arranged for chemists and are now being held at the Technical College; there are classes every evening (except at week-ends), members being allotted to a weekly class on an evening of their own choice. He (Mr. Best) had had no inquiries from out-district members as yet; members living in out-districts but working in Bradford might find it convenient to join the Bradford classes—though strictly the facilities were intended for Bradford people only. Members living and working in the out-districts should secure enrolment forms from their local A.R.P. authorities. If no classes suitable to their needs were available locally, the Branch would do its utmost to have arrangements made for them in their own area. Describing the scheme, Mr. Best said the city proper was divided into twenty-three dressing-station areas. Each station would have allotted to it doctors, nurses, orderlies and chemists—three chemists to the larger stations and two to the smaller. Chemists in excess of station allocations would be held as reserve and emergency men. Chemists would be allocated to the dressing station nearest their own shops. For those who did not reside on the premises, there would be alternative posts, depending on whether they were needed by day or by night. The duty of chemists, said Mr. Best, was clearly defined and officially recognised by the Bradford A.R.P. authority. They alone would be responsible for the stocks of dressings, instruments, etc., to be held at the station. They would be expected to keep sterilised drums, dressings, splints and kindred equipment in good order and ready for immediate use. Each chemist would have a key for the dressings section at the station and would have the sole duty of ordering stocks. The idea of using chemists' shops as dressing stations had been dropped, because it would interfere with the smooth running of the general scheme, would offer too little accommodation, and the treatment of gas cases would contaminate the shop, thereby rendering it unfit for ordinary business until it had gone through the costly and inconvenient process of decontamination.

Coventry

STAFF DINNER.—Colonel Sir William Wyley (managing director) was the guest of the employees of Wyleys, Ltd., at their annual dinner on December 19, at which Mr. W. B. M. Wyley (works manager) presided. Mr. W. H. Frampton, proposing the toast of "Sir William Wyley and the Firm," drew attention to the dinner being the first given by the works since the honour of knighthood had been conferred upon their managing director.

CONTENTS

See p. 689

Sir William, responding, remarked that it was sixty-eight years since he entered the service of the firm. Among the members and employees of the firm he had found warm, loyal and faithful friends. Subsequently Sir William made gifts of wristlet watches to the oldest employees, Mr. T. Smout (fifty-nine years' service) and Mr. E. Middleton (fifty-one years').

Eastbourne

NEW RULES.—A special meeting of the Eastbourne Pharmacists' Association was held on December 13 to consider additional rules. In order to obtain the greatest variety of opinions an invitation had been extended to all members of the local Branch of the Pharmaceutical Society. Mr. Henry C. Browne (president of the Association) was in the chair. The following is a summary of the rules added or abandoned:—*Rule 1*, "All private prescriptions, medical and household, shall be coded with the price charged." This was agreed. *Rule 2*, "The prices of all coded prescriptions shall be honoured." This also was agreed. *Rule 3*, "The Chemists' Friends and Proprietary Articles Trade Associations shall be loyally supported." It was not agreed that C.F. support should be made a condition of membership, though support for the movement was loyally pledged by the majority. The reference to the P.A.T.A. was thought unnecessary and deleted. *Rule 4*, "Apprentices shall be limited to one to each qualified person." It was agreed that this was a matter for the Council of the Pharmaceutical Society. *Rule 5*, "No member shall sell drugs in unregistered premises." This was thought to be covered by existing legal requirements. *Rule 6*, "No member shall allow more than 10 per cent. to outside traders for trade purposes." This was agreed. *Rule 7*, "No member shall encourage the sale of pharmaceutical preparations in unregistered shops or by hawkers." This was agreed. *Rule 8*, "No member shall advertise accuracy in dispensing or his or her personal skill." Some uncertainty arose as to what members had on their shop windows and circulars, and this proposed rule was in consequence deleted. *Rule 9*, "No member shall give discount to nurses." It was agreed that there existed a great deal of abuse in this respect, and that the rule was desirable. The following amendment, proposed by Mr. G. C. Harmer (chairman, South-Eastern Federation of Pharmacists) was agreed: "That in consequence of the abuse of the present discount allowed to nurses, the executive of the National Pharmaceutical Union be requested to obtain universal co-operation to have the same abolished and that this matter be brought before the next meeting of the South-Eastern Federation." *Rule 10*, "A member failing to attend four meetings in succession without reasonable cause shall cease to be a member." This was withdrawn. *Rule 11*, "Any ambiguity in a prescription shall be made clear for the next dispenser." This was agreed. *Rule 12*, "Members shall assist in safeguarding the public from poisons and dangerous drugs." This was agreed. *Rule 13*, "Members shall not encourage discussion of the therapeutic effect of a prescription."

Huddersfield

ANNUAL DINNER.—At the annual dinner and dance of the Huddersfield Chemists' Association and Branch of the Pharmaceutical Society recently, the chief guests were the Mayor and Mayoress, the medical officer of health (as president, Huddersfield Division, British Medical Association), and Mr. G. R. Knox Mawer, Wrexham (a member of the Pharmaceutical Society's Council). The president of the branch (Mr. N. Lander) was in the chair. "The Town and Corporation of Huddersfield" was proposed by Mr. J. L. Murgatroyd (vice-president). The Mayor responded. Mr. M. Peel (assistant secretary of the Branch) proposed "The Pharmaceutical Society of Great Britain." He remarked that every chemist's shop in Great Britain was open for inspection by an authorised inspector, and every student was under the Society's supervision. They had a Council composed of men who had the best interests of pharmacy at heart, and they might safely leave the future of the profession in their hands. The Huddersfield Branch had done much in the direction of advertising pharmacy, and was attempting to persuade other branches to do the same. Mr. G. R. Knox Mawer, who responded, assured members that the Society fully appreciated the pioneer work that Huddersfield was doing. Pharmacists in Wales claimed to be pioneers, but in that field they had to take second place. He was glad to know that the medical and pharmaceutical professions were working hand in hand in Huddersfield. Mr. Knox Mawer said that in a few years the Society's War Auxiliary Benevolent Fund would be exhausted. He was sure Hudders-

field would not be backward in helping to replenish the fund, and he appealed for a special effort to be made this Christmas. Dr. Sheard proposed "The Huddersfield and District Branch of the Pharmaceutical Society," and the president, responding, said that after being a member of the Huddersfield Branch for nearly fifteen years he knew it was one of the most active branches in the Society. They had pursued successfully a scheme to supply first-class products at reasonable prices. Their advertising scheme, known as the "Huddersfield Scheme," had been taken up in many other towns, and inquiries concerning it had been received even from New Zealand. Those were two services that the branch had given to the profession. In Mr. H. Bradshaw they had an ideal secretary, and they thanked him and the assistant secretary. "The Visitors and Ladies" were toasted by the secretary and Mr. J. Hampson responded. Mr. J. H. Tranmer acted as toastmaster, and was M.C. for the dance which followed.

London

SOUTH OF ENGLAND COLLEGE OF PHARMACY.—Mr. H. Lucas, principal of the South of England College of Pharmacy, Clapham, London, S.W.9, will be discontinuing his active interest in the College at the end of the present session in June 1939. The control of the College is being transferred to Mr. C. Beaven and Mr. C. Kempay, who have been senior members of staff for many years. The College will specialise in revision courses for pharmaceutical and medical examinations, and will provide approved courses for those students who have been required by the Boards of Examiners of the Pharmaceutical Society to undergo, before re-entry for either the Preliminary Scientific or the Chemist and Druggist Qualifying examinations, a further period of instruction in one or more subjects of those examinations. The nine months' courses for the Society's examinations will be discontinued.

SOCIETY'S SECRETARY AT WIMBLEDON.—Mr. H. N. Linstead (secretary of the Pharmaceutical Society) addressed the Wimbledon Branch recently on "Keeping up to date in Pharmacy." Mr. Linstead emphasised the need for keeping up to date in order to meet the intense competition of chain stores and multiple shops. He informed the meeting of the progress of the new building in Brunswick Square. Mr. Davis asked for guidance in the case of a person addicted to a drug which was not controlled by existing legislation. Mr. Linstead suggested that if any pharmacist had grounds for believing a person was addicted to such a drug it was his duty to point out to the addict's relations the dangers accruing from misuse, and if necessary to acquaint the patient's medical adviser of the facts. By also bringing notice of the case to his *confrères* the pharmacist could possibly stop the source of supply. Mr. Dickenson suggested that the Pharmaceutical Society was sheltering behind the "Jenkin" case in order to avoid its responsibilities under the Charter; in reply, Mr. Linstead said that this case was only a ruling, and that the National Pharmaceutical Union was set up with the full approval of the Society to deal with the business problems of the pharmacist. Mr. Stewart asked about trade unions for employee pharmacists, and the secretary said that this was up to the employees themselves and they must not expect any help from the Society. It would not be fair to expect the Society to assist one section of members against the other. Further discussions followed, and the meeting closed with a vote of thanks to the speaker proposed by Mr. Hodges and seconded by Mr. Sparks.

Merseyside

A.R.P. CLASSES.—A meeting of Crosby Pharmacists' Association was held on December 8, the president (Mr. J. Allen Jones) in the chair. Hours of opening during the Christmas and New Year holidays were agreed upon. The secretary announced that Air-Raid Precautions classes in first-aid, for pharmacists only, would commence in January under the Medical Officer of Health. Discussion took place on the census of retail pharmaceutical businesses conducted by the committee of inquiry.

DISCUSSION ON ADVERTISING.—At a meeting of the Liverpool Chemists' Association and Branch, on December 1, Mr. John Rae presiding, it was reported that the sum realised at the recent supper in aid of the Society's Benevolent Fund was £81 12s. 6d.; the bulk of this sum came from wholesale houses and from various efforts for which the ladies' committee was responsible. Mr. L. Moreton Parry (Liverpool Pharmaceutical Committee), on behalf of the committee and the Society's

Council, thanked all concerned. Mr. G. L. Clubb then introduced a discussion on "Advertising for Pharmacy." The problem before pharmacists was how to convince the public of the merits of pharmacy. Was pharmacy good enough to bear the spotlight of Press advertising? He thought it was. It was a pity Liverpool lagged so far behind, for what Huddersfield had done, Liverpool could do. He proceeded to give details of what a local scheme would cost. Mr. D. Roberts stated the Association had 600 members, but only between twenty-five and fifty turned up at meetings; that was where the trouble lay. He did not think it was true that advertising was responsible for patent medicines being so popular; the real reason was the Proprietary Articles Trade Association. The P.A.T.A. was one of the biggest curses of to-day. Mr. Clubb said to-day 80 per cent. of his turnover was in proprietary articles; he hated to admit the fact, but it was so. In this country there were 140,000 patent-medicine licences issued. That meant there were ten other distributing points for every chemist shop. Mr. W. A. Woodard said that the remedy for some of the present troubles might be found in legislation to control the manner in which medicinal products were advertised. Mr. W. Parry spoke in support of an advertising scheme and urged that it should be started soon. Another member pointed out that other conditions obtained in Liverpool than in Huddersfield, where the chemists were a relatively compact body. What he would like to know was whether a single shop in Huddersfield had discontinued the sale of proprietary medicines and whether there had been any increase in the turnover of chemists' shops since this advertising scheme had been operated. Until they had that information, the Association could hardly ask Liverpool chemists to commit themselves. Mr. D. Roberts believed pharmacists in Liverpool were joining trade unions to a greater extent than in any other centres. That indicated that chemists wanted to act together. The Association and the Branch should be reorganised and inquiries pursued to find out what form members wanted the meetings to take and what subjects they would like discussed. A junior member remarked that in the whole of the qualifying course there was not a word about how to run a business or about co-operation with other pharmacists. Sixty per cent. of pharmacists embarking upon a business had no ideas as to the lines on which they should proceed, except by copying. Unfortunately, many of them gave attention to the cheapest classes of trade instead of concentrating on the best. On the proposition of the chairman it was unanimously decided to ask the Council to consider the subject of advertising for pharmacy.

Morecambe

PROBLEMS OF TO-DAY AND TO-MORROW.—A general meeting of the Lancaster and Morecambe Branch was held at Morecambe recently, the branch president (Mr. R. Swaits, Heysham) in the chair. The meeting was addressed by Mr. H. M. Hirst, Scarborough (a member of the Society's Council), who spoke on "Pharmaceutical Problems of To-day and To-morrow." He dealt first with the Society's new building in Brunswick Square, London, explaining the need for removal and the cost of the new site and building; he said that, owing to increased building costs, there would be a deficit of £60,000, which it was hoped to meet by voluntary donations from members instead of increasing the annual subscription as had been suggested. He further stressed the need of the census of businesses which had lately been undertaken, saying that the Society wished to ascertain the exact business value of pharmacy to-day. One of the biggest difficulties facing the average pharmacist at present was the difficulty in obtaining apprentices; only the multiple shops appeared to be able to get apprentices with ease, probably owing to the inducements they offered. This was a problem that would have to be tackled thoroughly in the near future. Another problem was the increasing number of new businesses, some effort to restrict which would have to be made. One of the problems discussed at the Edinburgh Conference had been the possibility of devising a superannuation scheme for pharmacists; the Council had thoroughly investigated this, but, owing to the high rates of premium required by the insurance company, it was impossible to formulate a scheme. They therefore advised members to take advantage of the Government's pension scheme. Owing to the lateness of the hour, the discussion which followed the address was brief. Mr. A. H. Robertson spoke of his difficulty in obtaining apprentices, saying that applicants immediately lost their enthusiasm when the necessity for two academic years of study at recognised schools,

with the attendant expense, was explained to them. Pharmacy did not offer sufficient financial inducements to boys whose parents could afford the necessary expense. The meeting concluded with a vote of thanks to the speaker.

Wolverhampton

LANTERN LECTURE ON NEW BUILDING.—At a meeting of the Wolverhampton Branch of the Pharmaceutical Society held recently, Mr. A. Frost in the chair, Mr. W. Deacon gave a lantern lecture on "Pharmaceutical Headquarters, Old and New." The lanternist was Mr. C. M. Warner. Mr. W. Deacon commenced by expressing the hope that his audience would not be too critical, as this was the first time that he had given the lecture. He traced the history of the Society from the year 1794, when the Pharmaceutical Association was formed, and through the formation of the Society by William Allen in 1841. The first headquarters was at 17 Bloomsbury Square, and the speaker showed how inadequate these buildings had become, the library now being used as an office, and most of the rooms having to serve two purposes. Because of this overcrowding the Council decided upon a new headquarters. The interior would not be elaborate, but would contain all modern necessities. The Council were satisfied with present financial resources, but several branches had expressed their desire to help. He would be pleased to receive any donations towards the funds and stressed that these could be spread over a number of years. After an interval for refreshments a vote of thanks was proposed from the chair. Mr. S. Phillips, seconding, said he was sorry there was to be no lift in the new building. He then presented Mr. Deacon with a photograph of Professors Redwood, Bentley and Atfield taken in 1882. Messrs. H. L. and C. M. Warner were associated with the vote of thanks, which was carried with acclamation. In acknowledgment, Mr. Deacon said he appreciated the photograph that had been given and would have a slide made of it. In reply to questions from Messrs. Blenkinsop, Frost, Hagyard, Phillips, Taylor, C. M. Warner and H. L. Warner, he said that the lease of 17 Bloomsbury Square was nearly expired and had been sold for £12,000; arrangements had been made for the Society to remain in occupation, at an agreed rental, until the new premises were ready. The "Journal" office lease would expire about the same time, and if necessary a portion of the new building would be made available. The borrowed money had been obtained at a reasonable rate of interest and was within the Society's means to repay; there would be no need to raise members' fees. The balance of the sum required was expected to be raised by donations from outside interested parties as well as from members. The Society would be able to claim a rebate from income tax on members' donations; although the school, research laboratories and pharmacological department were not self-supporting, the indirect value obtained far outweighed any monetary considerations. The research carried on there raised the prestige of the Society in its dealings with Government departments. The Council was fairly sure that the estimate of £310,000 given by the architect would not be exceeded. Several members gave promises of substantial donations, to be spread over a number of years. The Branch also pledged itself to give wholehearted support to the scheme, and the following resolution, proposed by Mr. C. M. Warner, and seconded by Mr. J. H. Coleman, was passed: "That an appeal be issued to all members not present, asking for their donations (to be spread over a number of years if desired) towards the new headquarters." A vote of thanks to the lanternist closed the meeting.

Miscellaneous

BURNLEY CHEMISTS' OFFER.—At a meeting of the Burnley Chamber of Trade on December 14, it was announced that, in view of the shortage of chemists' apprentices, several chemists in Burnley were prepared to advance a premium, to be repaid in four years, for the education of boys in pharmacy.

IN THE COURTS.—At Old Street Police Court, London, on December 16, Stephen A. M. Josephs, Edgware, and Terence R. Josephs, Finchley, were charged on remand with having conspired to utter with intent to defraud forged documents, and with the uttering of forged promissory notes and hire-purchase agreements with intent to defraud. The accused were sent for trial.

PHARMACY ACT CASES.—At Stowmarket Police Court, recently, Mr. G. W. Hales, M.P.S., Ipswich, was summoned for

selling by retail certain poisons in a container not properly labeled and for selling a poison at Stowmarket when he was not an authorised seller of poisons. His son, Mr. Gordon Hales, was similarly summoned, but the charges against him were dismissed. Fines amounting to £16 8s. were imposed.—At Leighton Buzzard, recently, Wilfred E. Durrell was summoned for selling acetanilide in a container not properly labelled, he not being an authorised seller of poisons. A fine of ros. was imposed on each charge.

ROYAL INSTITUTION LECTURES.—The 113th course of Christmas lectures adapted to a juvenile audience and held at the Royal Institution, 21 Albemarle Street, London, W.1, will be given by Professor James Kendall, M.A., D.Sc., F.R.S. Subscriptions to the lectures are:—Juveniles (aged 10-17), ros. 6d.; adults (non-members), 21s. The lectures, which are on "Young Chemists and Great Discoveries," and which will be held at 3 p.m., are as follows:—December 29, "Humphrey Davy"; December 31, "Michael Faraday"; January 3, "Some Young Organic Chemists"; January 5, "The Chemistry of Space and of Solutions"; January 7, "Elements—Old and New"; January 10, "Some Young American Chemists."

INQUESTS.—At Birmingham, on December 19, a verdict of suicide was recorded at an inquest on Arnold S. Alder, whose death was due to cyanide poisoning. It was stated that he had been given a week's notice by his employers, and stole a tin containing the cyanide from the firm.—At Westminster, London, S.W., on December 20, an inquiry was held into the circumstances attending the death of Beatrice R. Leigh, who died while undergoing an operation in hospital. The medical practitioner who acted as anaesthetist said that he gave deceased cyclopropane by ordinary mask inhalation. The anaesthetic was a readily diffusible gas with which a very high percentage of oxygen (95 per cent.) could be given. It was a non-irritant to the chest, and was very quickly got rid of when an operation was over. Dr. John Taylor, pathologist, when asked why cyclopropane was not used more frequently, said it was quite a recent innovation in this country. A verdict of "Death by misadventure" was recorded.

Irish Notes

Pharmaceutical Society of Ireland

The latest dates for making application for entrance to the January examinations of the Pharmaceutical Society of Ireland are: Registered Druggist examination, December 27; Pharma-

ceutical Licence examination, January 2; Pharmaceutical Assistant examination, January 9. Applications must be lodged by 11 a.m. on the appropriate date.

Miscellaneous

MR. P. J. FIELDING, M.C.P.S.I., Cork, who has been confined to bed for several weeks past as the result of an accident, is reported to be making satisfactory progress.

MR. JOSEPH O'REILLY, M.P.S.I., has been appointed by the Eire Minister for Education an inspector of the Royal Irish Academy of Music. Mr. O'Reilly is a past-governor of the Academy, a member of the committee of the Municipal School of Music, and a past-president of the Students' Union of the Royal Irish Academy.

NO CODING OF POISON LAW.—In the Dail, recently, Mr. MacEntee, replying for Mr. Rutledge (Minister for Justice) to Mr. Dillon, stated that it was not proposed to take steps to codify the law as to the sale of poisons. Mr. Dillon said that at present nobody was aware what the provisions of the poisons code were, and it was impossible to find out. Mr. MacEntee said the law relating to the sale of poisons was quite clear and was set out in a booklet issued by the Pharmaceutical Society of Ireland.

Scottish Notes

Miscellaneous

MR. A. I. RONDER, M.P.S., Dunfermline, has been elected to membership of the Incorporated Sales Managers' Association of Great Britain.

GIFT TO COLLEGE.—Duncan, Flockhart & Co., wholesale and retail chemists, Edinburgh, have contributed £100 towards the extension to the Heriot-Watt College.

PROBLEMS IN PHARMACY.—At a meeting of the Paisley Chemists' Association, on December 12, an address was given by Dr. Joseph Tait, Edinburgh, on "Some Present-Day Problems in Pharmacy." He spoke of the new additions to Schedules 1 and 4 of the Poisons Rules, jury service for pharmacists, A.R.P., N.H.I. terms for 1939, a suggestion that a national council of health services be formed, and the pricing of private prescriptions. He then made an appeal for the Benevolent Fund, and for donations for the Society's new building in Brunswick Square. A vote of thanks to Dr. Tait was proposed by Mr. Whiteford.

Topical Reflections

By Xrayser

A Collective Advertising Plan

In the space of less than half a column of your last week's issue (p. 663) you give details of one of the most attractive publicity efforts that it has been my fortune to meet. To comment on the forthcoming enterprise of the South-East London Chemists' Association point by point would occupy too much space: I must therefore content myself with a more general survey of a plan that is easily grasped, and on the part of retail chemists in the area involves nothing more than systematic co-operation. The most remarkable feature is, perhaps, that these retailers are not being asked to pay anything. A Press advertisement in which some of the participants obtain an announcement free of charge seems at first sight a kind of catachresis, a misuse of a term; but your readers who have studied the page referred to (as I hope all in business have) have seen for themselves how this happy state of affairs comes about. It only remains for those who will benefit in this way to put every ounce of their energy into window dressing of the kind indicated—C.F. window dressing, as it may be called—and to adopt the suggestion of distributing in their shops copies of one or more of the newspapers concerned. The publicity committee of the Association is to be congratulated on the evolution of a scheme which appears to be the best so far devised for bringing pharmacy to the attention of the average householder.

Single or Dual Approach

After reading the report of the meeting mentioned in my preceding paragraph I turned to that of Mr. J. H. Macpherson's thoughtful paper on the future of National Health Insurance in Scotland (p. 665), a subject which raises a similar question of pharmaceutical policy. Here the point at issue is whether pharmacists should present their claims for increased remuneration as a single body or in association with the medical profession. After contrasting doctors' N.H.I. fees with pharmacists', Mr. Macpherson suggested that panel pharmacists should "get into touch and agreement with the medical profession to secure their co-operation in making these demands." I am not sure that the ratio of pharmaceutical fees to medical fees is advanced as a consideration leading us to invoke the aid of medical men in seeking higher fees for ourselves: if it is, however, I doubt its value in any such campaign. Further, we should, in the event of enlisting this help, have to ask ourselves what might be expected from us in return; for it is not to be supposed that medicine, on its political side, would cheerfully make representations *pour nos beaux yeux*. During the Christmas pause we shall, in the ordinary course, have a modicum of leisure for thinking over a few problems of this nature, and certainly it will do us no harm to think them out.

Company News

P.C. means Private Company and R.O. Registered Office

SMITHS CHEMISTS (LAINDON), LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists and druggists, etc. R.O.: 5 North Parade, High Road, Laindon, Essex.

A. E. SEWELL, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of chemists, druggists, vendors of patent medicines and pharmaceutical specialities, etc. Arthur E. Sewell, 101 High Street, Huntingdon, director.

BALDWIN ELECTRO-MEDICAL, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers, vendors of optical and other scientific appliances and equipment of all kinds including electro-medical apparatus, etc. R.O.: 10 Old Jewry, London, E.C.

P. W. GUY (CHEMISTS), LTD. (P.C.).—Capital £500. Objects: To carry on the business of retail chemists, druggists, etc. Percy W. Guy and Jas. Guy, both of 55 Crest Road, Cricklewood, N.W.2, directors. R.O.: 2 New Parade, Church Road, Ashford, Middlesex.

CHARCOAL BURNERS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of charcoal burners and manufacturers of charcoal products and the like, etc. Edward L. Johnson, 18 Ravenscroft Road, W.4, director. R.O.: Dorland House, 14-16 Regent Street, S.W.1.

PHARMACEUTICAL RESEARCH INSTITUTE, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in chemicals, drugs, medicines, etc. The first directors are to be appointed. Solicitors: Richard Brooks & Son, 11/12 Finsbury Square, E.C.2.

PLUM PRODUCTS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in laxatives, medicines, chemicals, oils, isinglass, colours, glues, etc. The first directors are to be appointed. Solicitors: W. John Parry & Co., 9 Southampton Street, W.C.1.

PLASTIC OPHTHALMIC LENS DISTRIBUTORS, LTD. (P.C.).—Capital £5,000. Objects: To carry on the business of manufacturers of and dealers in plastic lenses, opticians and makers of and dealers in optical goods, etc. C. H. Keeler and G. Poulton, directors. R.O.: 45 Wigmore Street, W.1.

MONEY'S AURALAIDE CO., LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of a manufacturer of appliances to assist people with defective hearing now carried on by Robert W. Money at 90 Junction Road, N.19, as "The Auralaide Co."

IMMERSION HEATERS, LTD. (P.C.).—Capital £200. Objects: To carry on business as manufacturers and salesmen of immersion heaters, sterilisers or general hospital equipment, etc. The first directors are not named. R.O.: 47 Newhall Street, Birmingham, 1.

W. BUSCHING CHEMICAL ENGINEERING CO., LTD.—Capital £5,000. Objects: To acquire any patents, licences and like rights, and to carry on the business of general engineers and contractors, metallurgists, chemists, etc. The first directors are to be appointed. Solicitors: Ashurst, Morris, Crisp & Co., 17 Throgmorton Avenue, E.C.

BUSH, BEACH & GENT, LTD., Marlow House, Lloyd's Avenue, London, E.C.3, chemical merchants, have elected as an additional director Mr. John Crawford, 69 Chalkwell Avenue, Westcliff-on-Sea. Mr. Crawford is chairman of Messrs. Spratt's Patent, Ltd.

MONSANTO CHEMICALS, LTD.—Ordinary interim dividend declared of 16½ per cent. on account of 1938, making 33½ per cent. to date (33½ per cent. paid for whole year 1937).

SAVORY & MOORE, LTD., and PHARMACEUTICAL PRODUCTS, LTD.—Terms of the proposed agreement between these companies was published on Friday, December 16. Savory & Moore proposes to purchase from Pharmaceutical Products part of its undertaking, including the benefit and goodwill of and in the agency and distributing agreement, fixtures, stock-in-trade (if any) and equipment used by that company in con-

nexion with its business. Pharmaceutical Products will retain its cash and other liquid assets and also its investments in subsidiaries, and will not be restricted from negotiating for further agency agreements in the future. Purchase consideration is £160,000, to be satisfied by the allotment to Pharmaceutical Products of 160,000 fully paid redeemable preference shares of £1 each in Savory & Moore, carrying a fixed non-cumulative dividend of 6 per cent. per year. These preferences will be a class of shares created expressly for the purpose, and will rank for dividend and capital behind the existing 6 per cent. and 7½ per cent. preference, but in front of the ordinary. The shares have no voting rights unless the fixed dividend is in arrear for six months. First full half-year's dividend is to be paid on June 30, 1939. The company has the right to redeem at par the whole or any number of the shares at any time on or after June 30, 1941, and before December 31, 2000, on giving at least seven days' notice in writing. To give effect to the deal the capital of Savory & Moore is to be increased from £300,000 to £460,000 by the creation of 160,000 6 per cent. redeemable non-cumulative preference shares of £1. The necessary meeting will be held at 61 Welbeck Street, W., on January 10 at noon. Savory & Moore owns the issued ordinary capital of Pharmaceutical Products, and has been closely associated with that company since its incorporation.

ILFORD, LTD.—The annual general meeting was held in London on December 16. Sir Ivor Philipps, K.C.B. (chairman), presided, and in the course of his speech said: In continuance of the policy of centralising your business we have during the year wound up voluntarily two of our subsidiary companies—Apem, Ltd., and Wellington & Ward, Ltd.—and merged their undertakings with those of this company. The assets of the Imperial Dry Plate Co., Ltd., have been transferred to this company, and steps are being taken to obtain the same effect as liquidation by seeking sanction of the Court to reduce the capital of the Imperial Dry Plate Co. to a nominal figure. With regard to the accounts, you should feel no cause to be dissatisfied with the year's operations. We have embodied corresponding figures for last year. The reserve fund has been increased by £25,000 by the transfer from the profits of the year, thereby bringing this fund up to £150,000. The total current liabilities are approximately £158,000, compared with £162,000 last year. Freehold property, etc., stands at £567,000, against £479,000, the increase being mainly due to the merging of the property of the subsidiaries. You will notice that the total of current assets is £787,000, a figure which is approximately five times the amount shown for current liabilities. Although the net profit for the year is down slightly, the actual earnings are approximately 16 per cent. on the issued ordinary capital. Your board are recommending a dividend of 8 per cent. only, thereby conserving the resources of the company. In spite of unsettled conditions throughout the world, it is gratifying to be able to report that our export sales have in the aggregate been almost maintained. In addition to Plastika, several new products have been introduced during the current year; notably the H.P.2 panchromatic plate, which we believe is the fastest panchromatic plate available; the H.P.2 panchromatic film; an improved Selochrome roll film; and a new panchromatic cine negative film. For years photography was regarded as a luxury, but the value of photographic materials to industry and science for recording purposes, and the immense part they play in public entertainment, have now firmly established this branch of manufacture as a key industry. The report and accounts were unanimously adopted.

COPELAND CHEMISTS, LTD.—At a meeting held in London recently it was resolved that this company be wound up voluntarily. Mr. P. S. Booth, 14-17 Holborn Viaduct, London, E.C.1, was appointed liquidator.

COMPANIES DISSOLVED.—Notice has been given in "The London Gazette" that the names of the following companies have been struck off the register and the companies dissolved: Belgrave Pharmacy, Ltd.; London Perfumery Co., Ltd.; Universal Soap Co., Ltd.

Pharmaceutical Society of Ireland

Council Meeting

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on December 13, Sir Thomas Robinson, the president, in the chair. Other members of the Council present were Messrs. P. C. Cahill, F. J. Fitzpatrick, J. F. Costello, C. Cremen, D. W. P. Boyd, P. A. Brady, P. Brooke-Kelly, J. Gleeson, B. P. Hickey, M. J. Kieran, J. V. McKeever, W. J. McKnight, J. A. O'Rourke, T. C. Scott, J. K. Whelehan, and Miss F. M. Flood. Apologies for inability to attend were received from Dr. J. Mitchell and Mr. P. J. Fielding.

TRIBUTES TO THE LATE MR. FLEMING

THE PRESIDENT said that before proceeding with the ordinary business of the meeting, he would like to refer to the death of their colleague, Mr. James Fleming, Athlone. The late Mr. Fleming was a member of the Council for many years, and was a personal friend of his. They were all very sorry to hear of Mr. Fleming's death, and he would like to express their sympathy with the widow and family in the resolution which he now moved.

MR. FITZPATRICK: I beg to second the resolution.

MR. BROOKE-KELLY and MR. KIERAN associated themselves with the resolution.

MR. MCKNIGHT, also associating himself, said the late Mr. Fleming was practically a next-door neighbour of his for the past twenty-five years. He was present at the funeral, and anyone could see from the huge number of cars the high esteem in which the late Mr. Fleming was held by all classes in Athlone. The people seemed to feel his death as a personal loss.

The motion was passed in silence, all members of the Council standing.

BRITISH PHARMACEUTICAL CODEX REVISION

Mr. H. Linstead, secretary of the Pharmaceutical Society of Great Britain, wrote: "The Revision Committee is now setting to work upon the detailed revision of the British Pharmaceutical Codex, which it is proposed to publish as soon as possible after the British Pharmacopoeia, 1941, becomes official. The Committee look forward on this occasion to the co-operation which has already been promised from the Dominions. At the direction of the Committee I enclose a list of substances which it is proposed shall form the subject of monographs, or submonographs. The Committee would value the observations of those whom you have nominated to the Codex Dominions and Colonial Committee upon the usefulness of these proposed additions. They would also be glad to have the names of any other substances which in their opinion could be described with advantage to the users of the British Pharmaceutical Codex in the Dominions and Colonies. I am to state at the same time that the Committee would welcome general comments and criticisms upon the Codex. To ensure their adequate consideration it would be an advantage if the replies could be received by the middle of 1939. I am sending this letter to you rather than to the individual members appointed from the Dominions. You and they may decide that some means of co-ordination and transformation into one document can be arranged centrally."

THE REGISTRAR (Mr. J. J. Kerr) said the Council had appointed Mr. Fitzpatrick and Mr. Brooke-Kelly to deal with this matter.

MR. BROOKE-KELLY said he had already done a considerable amount of work in connexion with the Codex.

MR. FITZPATRICK: Mr. Boyd will assist us.

The matter was left in the hands of a subcommittee consisting of the treasurer and Mr. Brooke-Kelly.

B.P. ADDENDUM TO BE OFFICIAL

The following letter was read from the secretary of the Medical Registration Council: "Dear Sir,—I have been directed by the Medical Registration Council to inform you that at a meeting of the Council, held on November 1 last, the following resolution, proposed by Dr. Moorhead, and seconded by Dr. Flood, was passed unanimously: 'The Medical Regis-

tration Council formally decided that on and after November 1, 1938, the pharmacopoeial standards as set forth in the Addendum 1936 to the British Pharmacopoeia 1932 be until further notice the standards and methods required in Eire, and that the Council so declare their action by formally placing on this copy of the said Addendum 1936 to the British Pharmacopoeia 1932 this resolution of the Council, and that the Seal of the Council be hereto affixed.'"

THE REGISTRAR pointed out that until the resolution was published in the Government "Gazette" the Addendum would not be official. He was in touch with the Department of Local Government on the matter, and received an assurance that he would be informed of the date of its publication in the official gazette.

MR. BROOKE-KELLY said it was surprising to him that the Addendum had not been made official before this. The Society had no power in the matter, which was one for the Medical Registration Council. It was most important that the Addendum be made official, as it corrected many errors made in the original publication.

THE REGISTRAR: The delay is not due to any fault of the Society. We got in touch with the General Medical Council.

MR. FITZPATRICK: Nothing would have been done but for the action taken by our registrar.

MR. BROOKE-KELLY said that the Addendum made many important changes. The old blue test for cod-liver oil was gone, and a biological test brought in.

The registrar was directed by the Council to write the Medical Registration Council pointing out the seriousness of delay in this matter, especially in relation to standards.

LEGAL

On consideration of the Law Committee's report the Council discussed at length, in committee, the question of sending a deputation to the Minister for Justice on the matter of the great discrepancy between the expenses incurred by the Society in bringing prosecutions under the 1908 Act, and the penalties and costs awarded. The indiscriminate issue of 1908 licences in towns where there were sufficient pharmacies to meet the public needs was also under consideration.

The Council decided to ask the Minister to receive a deputation, and appointed the president, the vice-president (Mr. P. C. Cahill), and the treasurer (Mr. F. J. Fitzpatrick) to represent the Society.

Mr. John J. Gaynor, Law Adviser, reporting on the recent prosecution brought by the Society against Mr. J. K. Ryan, Rathkeale, stated that the District Justice convicted on the summons under Section 30 of the Pharmacy Act and imposed a penalty of £5, with £8 expenses, and £2 2s. costs. He also imposed a fine of 5s. in respect of the summons under Section 2 of the Pharmacy Act, 1870.

The Department of Justice wrote stating that a petition had been received to have the penalties imposed in the recent prosecution under the Poisons Acts against William J. Finn, Michelstown, co. Cork, mitigated, and asking for the Council's views on the matter. A draft reply to the Department's letter submitted by the registrar was approved.

REGISTRATION ITEMS

Mrs. M. Murphy, *née* Bourke, L.P.S.I., wrote submitting marriage certificate, and desiring change of name in the Register. The application was granted.

The following, who submitted matriculation certificates, were granted Preliminary registration: Misses K. Carty, C. Stapleton, A. Barry, B. Brady, E. C. Bourke, B. Carolan, I. C. Connolly, E. Heavey, B. Herlihy, M. T. Moriarty, T. O'Connell. Messrs. L. J. Manley, J. J. Corbett, D. V. Dolan, P. Fahey, P. J. Foley, E. M. Meagher, J. Murphy, J. O'Farrell, and J. Quirke.

The following changes of address were notified:—Mrs. P. Lysaght, M.P.S.I., from Culmore, Croughton Park, Glasheen Road, Cork, to Lysaght's Pharmacy, Magazine Road, Cork; Mr. R. L. Austin, M.P.S.I., from Main Street, Ballinasloe, to c/o Gleeson's Medical Hall, Birr, Offaly; Mr. J. P. Cashman,

M.P.S.I., from Railway House, Kanturk, co. Cork, to 78 Oliver Plunkett Street, Cork; Mr. S. Coleman, M.P.S.I., from 198 Curzon Street, S.C. Road, Dublin, to 45 Manor Street, Dublin; Mr. M. D. McHale, M.P.S.I., from 7 Castle Avenue, Clontarf, Dublin, to Dunblane, 129 Vernon Avenue, Clontarf, Dublin; Mr. G. A. O'Donnell, M.P.S.I., from 40 Cabra Drive, Dublin, to Windy Arbour, Dublin; Mr. H. J. Sumner, M.P.S.I., from 51 Upper O'Connell Street, Dublin, to 76 Eglinton Road, Dublin; Mrs. M. Murphy, *née* Bourke, L.P.S.I., from 5 Prospect Place, Sunday's Well, Cork, to 5 Wilton Terrace, Dublin; Mr. M. H. Cosbie, L.P.S.I., from Verney House, Kiltiernan, co. Dublin, to 34 St. Marks Road, London, W.10; Mr. J. G. Monahan, L.P.S.I., from 10 Parnell Street, Ennis, to The Galway Pharmacy, Ltd., Oughterard; Mr. J. Robinson, L.P.S.I., from 14 Rossmore Avenue, Ormeau Road, Belfast, to 2 Rosetta Avenue, Belfast; Mr. W. J. Webb, L.P.S.I., from 26 Newbridge Avenue, Sandymount, Dublin, to "Clogheen," Gordon Avenue, Foxrock, Dublin; Mr. C. Mathews, R.D., from 83 Falls Road, Belfast, to 3 Chester Avenue, Whitehead, co. Antrim; Mr. W. W. Williams, R.D., from 121 Capel Street, Dublin, to Lilyholme, Nephin Road, Navan Road, Dublin.

THE REGISTRAR reported on the deaths of J. Fleming, M.P.S.I. (705); and M. Dempsey, L.P.S.I. (656), Asst (24).

THE REGISTRAR reported on the removal of the following from the Register under Section 25: P. J. Hayes, L.P.S.I. (980), T. H. Mahoney, L.P.S.I. (1163), J. McCarthy, L.P.S.I. (1599), and P. MacArthur, Asst (146).

SCHOOLS COMMITTEE

A recommendation made by the Schools Committee that a demonstrator be appointed for the botany and materia medica classes was approved. It was further agreed that the registrar be instructed when assigning places in the pharmacy class to give preference to those who had already done chemistry.

BADGE REPLICA PRESENTED TO MR. HICKEY

THE PRESIDENT said he had now a very pleasant duty to perform, and that was to present Mr. Hickey, the out-going president, with a replica of the presidential badge as a memento of his term of office. They had said a good deal about Mr. Hickey last month when he left the chair, and it was unnecessary for him to say much more now. He was sure they were all glad to pay Mr. Hickey this compliment, and wished him many happy years to wear this badge.

Members of the Council applauded as the president presented Mr. Hickey with the badge.

MR. HICKEY said he wished to thank the president for his kind remarks in handing over this badge, which he would appreciate as a memento of his year of office. He thanked members of the Council for the spirit of helpfulness and tolerance they extended to him during that year.

MR. BRADY said he did not happen to be on the Council during Mr. Hickey's term of office, but would like nevertheless to be associated with the president's tribute.

MEMBERSHIP

The following were elected to membership of the Society: Miss M. E. Boland, Messrs. P. J. Donoghue, J. E. Elmas, R. I. Jones, D. H. Leane, J. McGuire, and J. Mangan. Mr. J. Clune was elected an associate druggist.

The following were nominated for membership: J. P. Cashman, 78 Oliver Plunkett Street, Cork; G. Chambers, c/o R. Tompkin, M.P.S.I., 2 Upper Drumcondra Road, Dublin; M. D. McHale, Dunblane, 129 Vernon Avenue, Clontarf, Dublin; J. Harnett, Main Street, Killarney, co. Kerry; and J. Vaughan, Medical Hall, Nenagh.

The Licence certificate of Mr. R. P. McAdoo was signed and sealed.

OTHER MATTERS

Mr. D. Warwick, M.P.S.I., P.C., wrote thanking the Council for electing him examiner in pharmacy to the Licence examination, and assuring them that he should do his best to prove worthy of the confidence placed in him.

The House Committee report was submitted and approved. At the conclusion of the business on the agenda a meeting of the Benevolent Fund Committee was held and five grants for deserving cases during the Christmas season were authorised.

C.F. Association

THE first meeting of the Chemists' Friends Council (the executive body of the newly-formed Chemists' Friends Association) was held at 4-5 Queen Square, London, W.C.1, on December 13. The membership of the Council had been completed by the election of wholesale representatives, and the following members were present:—*N.P.U. representatives*, Messrs. Atkinson, Davies, Evans, Heseltine, Marshall, Stearn and Tristram. *C.F. Manufacturers' representatives*, Messrs. E. C. Cripps (Allen & Hanburys, Ltd.); J. D. Bohn (The British Drug Houses, Ltd.); I. V. L. Fergusson (Evans Sons Lescher & Webb, Ltd.); J. E. Blackwell (Genatosan, Ltd.); R. C. Feather (Meggeson & Co., Ltd.); and W. W. Knott (Parke, Davis & Co.). *Wholesalers' representatives*, Mr. R. Peck (Sangers, Ltd.); Colonel S. Watson (James Woolley, Sons & Co., Ltd.); the representative of the Scottish Pharmaceutical Federation was unable to be present.

ELECTION OF OFFICERS

The following officers were elected for the year:—*President*, Mr. E. C. Cripps (Allen & Hanburys, Ltd.); *Vice-President*, Mr. S. J. Stearn (chairman, N.P.U. Executive); *Treasurer*, Mr. R. Peck (Sangers, Ltd.). Mr. G. A. Mallinson was appointed *Secretary* to the Association and Mr. H. Noble *Assistant Secretary*.

CONSTITUTION AND RULES

The secretary was instructed to prepare for consideration at the next meeting a draft constitution for the Association and rules for the conduct of its affairs, based on the proposals adopted at the annual meeting of C.F. manufacturers.

APPLICATIONS FOR INCLUSION IN C.F. LIST

A number of applications for inclusion in the C.F. List were received; of these two were accepted and are now awaiting the completion of formalities connected with the agreements to be made with N.P.U., Ltd. Consideration of other applications was deferred until the next meeting in order that questions of more satisfactory trade terms and arrangements for price maintenance could be taken up with the manufacturers concerned. Four applications for recognition as approved wholesale distributors of C.F. products were refused after a full consideration of the evidence available as to the desire of chemists locally to obtain supplies from the firms concerned and the requirements of C.F. manufacturers for further wholesale distribution points.

CONTROL OF DISTRIBUTION

Arrangements were made for informing all C.F. manufacturers of cases in which retailers or wholesalers are suspected of supplying C.F. products to unqualified traders for resale and the stop list are to be put into full operation as soon as investigations now on hand have been completed.

MEMBERSHIP OF COUNCIL

A proposal that wholesalers should be given an increased representation on the Council was debated, and ultimately it was decided that the views of the C.F. manufacturers should be sought as to the desirability of increasing the number of wholesalers' representatives from two to four and the number of manufacturers' representatives from six to eight.

BLOOD PRESSURE WHILE YOU WAIT.—"Facilities for measuring blood pressure are now provided in Paris in chemists' shops, bathing establishments, and even in fairs and exhibitions. Last summer a member of the municipal council was walking down the Rue de Rivoli when his attention was caught by a small crowd of people waiting their turn to have their blood pressure measured, at four francs a time, by an operator who had temporarily installed himself in one of the many alcoves in this street. The councillor was shocked and lodged a complaint with the prefect of police, asking him to protect a too gullible public against this practice. In due course the prefect, after consulting the Ministry of Public Health, replied that 'the measurement of the arterial pressure is not considered as a medical act.' The person concerned would only be liable to punishment as an illegal practitioner of medicine if he made a diagnosis or prescribed treatment based on the readings of the sphygmomanometer."—"Lancet."

Pharmaceutical Society of Northern Ireland

Council Meeting

THE view that apprentices were no longer getting proper shop training was expressed at the monthly meeting of the Council of the Pharmaceutical Society of Northern Ireland held at 73 University Street, Belfast, on December 16. The president, Mr. Walter C. Tate, was in the chair.

MR. D. L. KIRKPATRICK (secretary) submitted the report of the board of examiners. He said it was the worst pass list they had had since the Society was started. Pharmacy seemed to be the bugbear of the candidates.

Several members expressed the opinion that the standard set was too high, and another asked did the examiners expect the candidates to know as much as they knew themselves.

THE SECRETARY said the examiners did their job with scrupulous fairness, and every candidate was given the utmost opportunity to do his best work. The examiners did not deserve the slightest criticism.

THE PRESIDENT, concurring, said he had seen the questions which were set by the examiners, and any candidate who could not answer them satisfactorily did not deserve to pass.

MR. JAMES GLENDINNING, vice-president, thought that the fault lay not so much with the candidates as with those responsible for their training.

THE PRESIDENT said it had to be admitted that very few of the young people coming forward knew how to wrap up a bottle correctly. That showed their shop training was wrong.

MR. J. McDOWELL thought the true explanation of that was that they were not in the shop long enough.

PROFESSOR SMALL said there was no doubt that a whole lot of the trouble was due to the apprentice masters. A great many of them did not even take the trouble to teach their apprentices to wrap a bottle, let alone the more important things.

MR. GLENDINNING said that that was the view he had had for a long time. How many chemists, he asked, went out of their way to give their apprentices a pill to make or a plaster to spread? In the ordinary chemist shop of to-day the young people coming on did not get a chance, and the result was that the prestige of the profession suffered. The medical profession were prescribing "these patent things and we are merely handing them out over our counters." In his opinion they were allowing their businesses to deteriorate to an ordinary commercial basis. In fact, they might as well be selling china ornaments (laughter). For the sake of their profession and the good name it enjoyed he thought they should give this matter serious consideration, and see to it that apprentices were at least given the opportunity to learn the essential things of the business. (Hear, hear.)

PROFESSOR SMALL thought that in the old days apprentice masters took a greater interest in their apprentices. His apprentice master had given him plenty to work at, and had given him a splendid training in analytical chemistry.

MR. J. F. GRIMES expressed sympathy for the parents of the unsuccessful candidates in view of the expense incurred by repeated examinations. It was harder even on them than on their children in a great many cases.

MR. C. ABERNETHY asked if the failures were all from the country. He had heard that it was difficult to get apprentices in some districts.

THE SECRETARY replied that there were some from the town. They had an average of thirty-two candidates in the year.

On the motion of Mr. J. MCGREGOR, seconded by Mr. J. W. GRAY, the examiners' report was adopted.

In reply to Mr. McDOWELL, THE PRESIDENT said he wanted to make it clear that there was no consultation between the examiners and the Council before or during the examinations. The examiners were the only judges, and their decision was final.

PROPOSED COURSES IN BIO-CHEMISTRY

The following letter was read from the secretary of the Academic Council of Queen's University: "Your letter of October 24 addressed to the secretary has been carefully considered by the Faculty of Medicine and by the Academic Council, and I am directed to inform you that the University cannot see its way to institute a Diploma in Bio-chemical Analysis. The existing courses in bio-chemistry are not of the type likely to be required by members of your Society,

and to arrange for special courses would be impossible. I am sorry we are unable to be of more assistance."

MR. GLENDINNING thought that the Council should endeavour to arrange classes elsewhere.

THE PRESIDENT thought that if they could get the classes they would have no difficulty in getting the students.

MR. J. E. CONNOR, supporting Mr. Glendinning, said it was necessary for them to keep abreast of the times. They could not remain static, and if they did not move forward they would certainly move back.

The Council decided to refer the matter to the secretary, directing him to get in touch with the Home Office and the Principal of the Belfast Technical College to see if classes could be arranged.

OTHER MATTERS

MR. C. G. DRUMMOND, Edinburgh, local secretary of the British Pharmaceutical Conference, 1938, wrote thanking the secretary and the Council for "the extremely generous tribute you have paid to our efforts during Conference week," and adding, "Personally I was charmed to have the chance of meeting the representatives from Northern Ireland, and thank them for their hearty co-operation in the arrangements made."

The report of the Finance Committee was adopted on the motion of Mr. W. MARTIN, seconded by Mr. S. GIBSON, J.P.

The following nominations for membership were received:—James Robinson, 2 Rosetta Avenue, Belfast; James N. Hogg, 262 Shankill Road, Belfast; Henry H. Couser, 76 Knockeden Park, Belfast; and Henry M. Miller, 8 Thomas Street, Armagh.

A vote of condolence was passed to Mr. I. W. Parker on the death of his wife.

At the close of the meeting THE PRESIDENT wished the members of the Council a happy Christmas and a prosperous New Year.

The members present included Dr. Acheson, and Messrs. J. T. Nicholl, and J. W. Gray.

Parliamentary News

NON-INFLAMMABLE FILMS

Sir Samuel Hoare, in reply to a question by Mr. Mander on December 15, stated that the Cinematograph Act, which gives local authorities power to enforce conditions as to the exhibition of films, applies only to inflammable films. The question has arisen whether slow-burning films are or are not subject to this Act, and whether in any case the exhibition of such films ought not for safety and other purposes to be subject to some control by the local authorities. He had asked the Cinematograph Advisory Committee to consider the question.

CONTRACEPTIVES BILL

Mr. Simmons moved the second reading of the Contraceptives (Regulation) Bill on December 16. After considerable discussion, the debate stood adjourned until February 10.

ILLICIT IMPORTATION OF DRUGS

Mr. Hamilton Kerr asked the Home Secretary on December 19 about illicit importation of drugs, which, he alleged, factories in Chinese territory under Japanese military control were turning out for world sale and distribution.

Mr. Lloyd, in reply, pointed out that the importation of dangerous drugs into this country was prohibited except under licence, and there was no reason to suspect that drugs manufactured in the Far East are entering this country.

FOOD RESEARCH

Mr. R. Gibson asked the Minister of Health on December 20 whether he will consider legislation to set up a food research institute on which bodies interested in health, nutrition, and food might be represented.

Mr. Bernays: There is at present a great deal of research on food problems and my right hon. Friend doubts if a single institute of the nature suggested would be of service.

Trade Notes

OFFICE EQUIPMENT.—J. C. King, Ltd., 42 to 60 Goswell Road, London, E.C., have sent us specimens of their illustrated leaflets on office equipment. These leaflets show the large variety of goods coming under this heading which can be supplied from stock. Further details may be obtained on application.

ICILMA DISPLAY.—Illustrated on this page is the cut-out of life-size dancing figures produced for the Icilma Co., Ltd.

This giant display presents several noteworthy features, the dress, hair-dressing and jewellery being shown in accordance with expert opinion obtained so that the figures would be quite up to date in every respect. Twenty-four printing plates were used on the figures, and the result is shown in a production which has already been favourably received by the trade. Further details may be obtained on application to Lintas, Ltd., Unilever House, Blackfriars, London, E.C.4.

CELLOPHANE MAGAZINE.—We have received from British Cellophane, Ltd., Bridgwater, Somerset, a specimen copy of their house organ, which is described as the "20th Century."

The magazine is tastefully laid out and fully illustrated. One article with the title "Making Modern Medicines," describes the Glaxo factory and laboratories at Greenford.

BONUS OFFER.—Phil-Sano, Ltd., 106 Great Russell Street, London, W.C.1, announce a bonus offer on Phil-Sano brand aspirin tablets which is available until January 31, 1939. Orders for bonus conditional on a fortnight's counter display can be placed with the usual wholesale houses. Phil-Sano aspirin tablets are sold through chemists only.

SEASONAL GREETINGS appear in our advertisement pages from the following: The National Pharmaceutical Union, 4 and 5 Queen Square, London, W.C.1, who link their message of goodwill with the Chemists' Friends movement; Potter & Clarke, Ltd., 60-64 Artillery Lane, London, E.1, makers of Potter's asthma cure and catarrh pastilles; Willows, Francis Butler & Thompson, 73-75 Shacklewell Lane, Dalston, makers of Willows galenicals from chemically and physiologically tested drugs; J. E. Cross & Co., Ltd., Brettenham House, Lancaster Place, London, W.C.2, marketing and sales promotion; C. A. Scurr, 50 High Street, Barnet, London, who suggests that pharmacists should qualify in optics in the New Year. Mr. Scurr will send particulars of his course for the optical diploma examinations on request; Burgoyne Burbidges & Co., Ltd., London, E.6.

PHENACETIN JUBILEE.—Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2, announce that it is fifty years ago since phenacetin was discovered in the Bayer laboratories. Some of the Bayer fine chemicals are listed elsewhere in this issue, and stocks are held in London.

A PROPHECY.—During 1938, states Walden & Co. (Nufix), Ltd., Rookery Way, London, N.W.9, Nufix sales were bigger than ever, due to the unstinted co-operation of the trade. They predict that the coming year will break all sales records.

CHRISTMAS HOLIDAYS.—The following are additional details of the closing arrangements of wholesale and manufacturing houses published in the *C. & D.*, December 17, p. 661:—A. Boake, Roberts & Co., Ltd., and Phil-Sano, Ltd. (closed from Friday evening, December 23, to Wednesday morning, December 28); Thompson & Capper Wholesale, Ltd. (open on Saturday morning, December 24, for urgent orders only); T. & H. Smith, Ltd. (London depôt, closed on Monday and Tuesday, December 26 and 27, and on Monday, January 2).

Births

Notices for insertion in this column must be properly authenticated.

CROSSLEY.—At 139 Station Road, Chingford, London, E., on December 17, the wife of Henry L. Crossley, M.P.S., Chingford, of a daughter.

MARTIN.—At Hillview, Maghera, co. Derry, on December 15, the wife of Robert J. Martin, M.P.S.N.I., Maghera, of a son.

Deaths

BUSTARD.—Recently, Mr. Francis Edwin Bustard, M.P.S., St. Ann's Road, South Tottenham, London, N.15, aged seventy-four.

BUTTERFIELD.—Recently, Mr. William Butterfield, M.P.S., 351 Russell Court, Woburn Place, London, W.C.1, aged fifty-five.

COLLISHAW.—At Brighton, recently, Mr. John Collishaw, Ph.C., aged ninety-one. Mr. Collishaw was formerly in business at 16 High Street, Wandsworth, London, S.W.18.

COOMBE.—Recently, Mr. Ernest George Coombe, M.P.S., High Street, Andover. Mr. Coombe passed the Pharmaceutical Society's Minor examination in 1911.

DOWNING.—Recently, Mr. Leslie William Downing, Ph.C., Oldham, aged thirty-three.

GRIEVE.—Recently, Mr. James Grieve, Ph.C., St. Peters Street, St. Albans, aged sixty-eight.

HALL.—Recently, Mr. Leonard William Hall, M.P.S. Mr. Hall, whose death was caused by a motor accident, qualified in 1928.

HERMAN.—At Liverpool, on December 19, Mr. Robert Charles Herman, M.P.S., 11 Warbreck Moor, Aintree, aged sixty-three. Mr. Herman was a justice of the peace and a former alderman of Liverpool City Council. A native of Whitehouse, co. Antrim, he was apprenticed to the late Dr. Oldershaw, Wallasey, and qualified in 1894. He subsequently opened a business at Warbreck Moor and later entered into partnership with his brother, Mr. J. B. Herman, M.P.S.

HOLMAN.—On December 6, Mr. Sidney George Allen Holman, M.P.S., Parrswood Road North, Withington, Manchester, aged thirty-five.

LEWIS.—Recently, Mr. Arthur John Lewis, Ph.C., Brynderwen Villa, Mamhildd, Pontypool, aged seventy-six.

PARKER.—At Ferndale, The Cross, Enniskillen, on December 9, Florence Elizabeth, wife of Mr. I. W. Parker, M.P.S.N.I.

PUNCH.—On November 28, Mr. James Punch, M.P.S., Leeds, aged sixty-six.

WING.—At 19 Eldersley Road, Eltham, London, S.E.9, on December 19, Mr. Arthur Joseph Wing, M.P.S., 60 Powis Street, Woolwich, S.E.18. Mr. Wing passed the Pharmaceutical Society's Minor examination in 1886.

Personalities

MR. R. W. BROWNLOW, M.P.S., J.P., Melton Mowbray, has been appointed chairman of the local bench of magistrates.

MR. LEONARD A. BAILEY, Ph.C., has joined the representative staff of The British Drug Houses, Ltd., London, N.1.

THE medal of the Society of Dyers and Colourists, originally created in commemoration of the work of Sir William Perkin, is to be awarded to Dr. Henry Dreyfus for "work of outstanding importance in connection with the development of the cellulose acetate rayon industry in England."

At the quarterly meeting of the Stratford-on-Avon Circuit of the Methodist Church, Mr. T. R. Perkins, M.P.S., Henley-in-Arden, was unanimously elected to the office of Senior Circuit Steward. With the exception of the years 1936 and 1937, he had served as Junior Steward continuously since 1919.

MR. GEOFFREY A. N. HIRST, chairman and governing director of Hirst, Brooke & Hirst, Ltd., manufacturing chemists, Leeds, has been elected vice-chairman of the Board of Governors of the Leeds College of Technology, and chairman of the County Advisory Committee for Advanced Chemistry under the authority of the Yorkshire Council for Further Education.



Retail 1/6 & 2/9 *John Bell* Trade 12/6 & 22/6

'TRIAD' Brand CHERRY MALT & OIL
With Improved Parrish's Food

JOHN BELL, HILLS & LUCAS LTD.
OXFORD WORKS, WORSLEY BRIDGE ROAD, S.E.26.

"SPECIAL" BACK & KIDNEY PILLS
"URICURE" TABLETS
"NEVROIDS" FOR WOMEN
"MANOIDS" FOR MEN

From all
SUNDRIES HOUSES
or Post Free from—
THE ACTION PILL & TABLET CO. LTD.
ASH VALE, SURREY.

'PANOPEPTON'
AS A RESTORATIVE FOOD
A NOURISHING, RESTORATIVE, STIMULANT
Liquid Food of incomparable value
for the nutrition of the sick.
(Supplied in 12-oz. bottles.)

Originated and Manufactured by—
FAIRCHILD BROS. & FOSTER (Inc. N.Y.)
New York and 65 Holborn Viaduct, London, E.C.1

Agents:
BURROUGHS WELLCOME & CO., London, Sydney, Cape Town

C. & D. Stock-Taking Pads
Halve the Labour of Taking Stock
Price of Complete Pad, 2/6 post free

The Chemist & Druggist Publications Dept.,
28 Essex St., London, W.C.2
S.T.P.2

A word of caution—

'PRONTOSIL'
TRADE MARK PUERPERIN BRAND

'Prontosil' is a registered trade mark, and when specified on any prescription, the Chemist is legally bound to supply the Original product. Substitutes are liable to give different clinical results from the Original. In order to safeguard doctors and patients we shall protect our Trade Mark rights by vigorous action.



BAYER PRODUCTS LTD

AFRICA HOUSE · KINGSWAY · LONDON · W.C.2

S. V. R.
FOR
Write for Prices **TINCTURES**
JAS. BURROUGH LTD. 1 Cale Distillery, LAMBETH, S.E.11 (2)

COLDS
PREVENTION and TREATMENT
efficiently accomplished by
SEROCALCIN
tablets

Booklet and attractive small display stand
in colours gladly sent to any Pharmacist

Harwoods Laboratories Ltd., Watford, Herts

**VETERINARY
COUNTER PRACTICE**

(NEW AND REVISED EDITION. 480 pages.)

This book describes diseases of horses, cattle, sheep, goats, pigs, dogs, cats and poultry and suitable remedies therefor.

Special chapters are allotted to infection, immunity, vaccine therapy and posological tables. Legal information is included in regard to veterinary practice—the use of Methylated Spirit in veterinary preparations, The Contagious Diseases (Animals) Act, Protection of Animals Act, 1911, Animals Anaesthetics Act, 1919, and a useful list of Ministry of Agriculture publications. Many tried and tested veterinary formulæ are included. This book supplies up-to-date information on veterinary matters in accurate and concise form. It quickly repays its moderate cost.

Price 10/- 10/6 post free

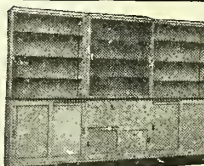
Send your order at once to
THE PUBLISHER

The  **CHEMIST AND DRUGGIST**
28 ESSEX STREET, STRAND, LONDON, W.C.2

CHEMISTS' FITTINGS

No. 80 ... DRUG FITTING
10 ft. Long, 7 ft. High, 10 ins. Deep
Illustrated Price List on Request

F. MAUND & E. BERG
(Showcases) LTD.
175/9 OLD ST., LONDON, E.C.1
Phone: Clerkenwell 1782/3



Information Department

INFORMATION WANTED

- | | |
|--|--------------------------------|
| B/21 Detoxyl tablets. | S/12 Flint's ear plugs. |
| S/16 Electro Jelly (for use in connexion with electro-cardiograph work). | S/26 Lustress combs. |
| M/20 Fettina pills. | W/30 Singapore Lights perfume. |
| | H/21 Vitamin-plus. |

THE CHEMIST AND DRUGGIST

VOL. CXXIX

December 24, 1938

NO. 3072

CONTENTS

	PAGE		PAGE
Acidosis and Alkalosis ...	694	Parliamentary News ...	686
Births ...	687	Personalities ...	687
Carl Wilhelm Scheele ...	692	Pharmaceutical Society of Ireland:—	
Chemists' Friends Association ...	685	Council Meeting ...	684
Company News ...	683	Pharmaceutical Society of Northern Ireland:—	
Correspondence:—		Council Meeting ...	686
Letters ...	700	Pharmacy & Poisons Act, 1933 ...	691
Miscellaneous Inquiries ...	700	Proprietary Articles Trade Association ...	679
Deaths ...	687	Retrospect ...	700
Editorial Articles:—		Scottish Notes ...	682
Keeping Abreast the Times ...	689	Sudan Gum Acacia ...	699
November Trade Returns ...	689	Topical Reflections ...	682
London Arbitration—Amended Rules ...	690	Trade Marks ...	691
Fifty Years' Service ...	694	Trade Notes ...	687
Information Department ...	688	Trade Report ...	696
Irish Notes ...	682	U.S.A. Synthetic Aromatics ...	695
McKesson & Robbins, Inc. ...	695		
News of the Week ...	679		

Keeping Abreast of the Times

To keep abreast of the times in matters relating to the drug trade would be difficult for those connected with its many branches without a publication such as *The Chemist and Druggist Diary and Year-Book*. The 1939 edition of this publication, which is now being circulated to all our subscribers, contains accurate information on subjects of vital importance to the retailer and the manufacturer. Thus, in the section dealing with patents, designs and trade marks, details of the new legislation affecting the registration of trade marks as contained in the Trade Marks Act, 1938, are set out. This new Act repeals the previous Trade Marks Acts, so far as they were not already repealed. It gives a new definition of trade marks and sets out a new registration classification, consisting of thirty-four classes in place of fifty contained in the old classification. The classes of merchandise with which the drug trade is chiefly concerned are detailed in *The Diary and Year-Book*, and information regarding conversion of existing trade marks and the period of protection afforded to a trade mark effected under the new Act is also given. Under the Trade Agreement between the Government and the United Kingdom and Eire, signed and published in London on April 25, 1938, certain goods grown, produced or manufactured in and consigned from Eire are allowed entry free of customs duty into the United Kingdom. Among the articles affected are many connected with the chemical, drug and allied trades, and a list of these has been included in *The Diary and Year-Book*. Many undertakings in connexion with the Agreements in respect of consignments of imported goods of United Kingdom origin have been made by the Government of Eire and the essential points of these are summarised in the new edition. Since *THE CHEMIST AND DRUGGIST* "Dictionary of Synonyms" became out of print, so many inquiries have been received relating to the pharmaceutical synonyms in more frequent use that twenty pages have been devoted to the reprinting of a large number of such terms. In compiling

this dictionary, synonyms which are considered to be obsolete have been omitted to leave room for those which are more up-to-date and more commonly used. It is shown in an article in *The Diary and Year-Book* on "Heating the Pharmacy," that the Shops Act, 1934, requires that premises where persons are employed about the shop must be kept at a "reasonable" temperature. To those who find the choice of a suitable means of shop heating somewhat problematical, this article will be especially instructive, as in it are reviewed the various types of heating apparatus available, and the points in favour of the different kinds can be seen easily from the many illustrations given. In addition to the more familiar types of modern gas and electric heaters described, many will find that a mobile radiator, which can be transferred with ease to different departments of the premises, and which is also illustrated, is best suited to their requirements. A considerable difficulty which regularly confronts the practising pharmacist is the question of whether an article prescribed on a National Health Insurance prescription will be allowed or not. Although many pricing bureaux periodically indicate the preparations which have been disallowed, no official list of items which cannot be supplied has been issued, and the pharmacist is often left in doubt. A valuable opinion of an advisory committee on the classification of various prescriptions was given some time ago. This now forms a general guide to the situations which may arise, and lists of substances and preparations based on the recommendations of the Advisory Committee are given in *The Diary and Year-Book*.

Owing to the increasing usefulness and growth in popularity of the Buyers' Guide it has been found necessary to increase the list of items in this section by four pages, and this section is, in consequence, bigger and more comprehensive than ever. Other features of *The Diary and Year-Book* deal with drug trade organisations, sale of poisons and dangerous drugs, postal information, and so forth, which are indispensable for reference.

Since the new edition went to press we have been informed of the following changes in the *personnel* of chemists' associations' officers:—

BATH BRANCH, PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. W. J. Hallett.

BRIGHTON AND HOVE ASSOCIATION OF PHARMACY.—*President*, Mr. C. V. Brumwell; *Secretary*, Mr. G. H. Phillips.

DERBY BRANCH, PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. J. C. Smith.

NORTH STAFFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. R. A. Hackney.

OXFORD BRANCH, PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. C. H. Price.

SHEFFIELD BRANCH, N.P.U.—*Secretary*, Mr. J. E. Crowe.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY.—*Secretary*, Mr. E. A. Kirman.

ULSTER CHEMISTS' ASSOCIATION.—*President*, Mr. E. A. Richey; *Secretaries*, Messrs. P. R. W. Shinner and T. A. Gibson.

We have also been notified that the name of the Waterloo, Seaforth and Crosby Pharmacists' Association has been changed to the Crosby and District Pharmacists' Association.

November Trade Returns

It was feared that our international trade figures for November might show a decline compared with those of recent months. It is, therefore, satisfactory to find in the returns evidence that our general shipping trade, and particularly exports, have been about sustained. The value of our imports of all classes of merchandise was about

£1,000,000 less than the landings during October, while our total exports show an increase of £31,156. The adverse trade balance for the eleven months amounts to £358,139,208, against a deficit of £387,519,215 for the corresponding period of 1937. Among the chief groups showing a decline in imports this year are wood and timber, £17,348,000; raw cotton, £16,667,000; and non-ferrous metals, £13,779,000. Practically all classes of mainly or wholly manufactured goods show a small decline. Most classes of foodstuffs, chiefly free imports from Empire sources, show an increase which amounts to £6,000,000. The losses in exports include raw wool, £2,900,000; iron and steel goods, £5,950,000; cotton goods, £17,499,000; woollen goods, £8,000,000, and other textile goods, £5,100,000. Increases are recorded in vehicles (including aircraft), £4,735,000; machinery, £7,991,000; electrical goods, £913,700, and meat, £88,000.

All Classes of Merchandise	Imports	Exports of U.K. Goods	Total Exports, including Re-exports
	£	£	£
November, 1938 ...	78,028,496	42,923,223	48,037,135
" 1937 ...	97,268,371	45,183,169	50,488,815
" 1936 ...	78,679,845	38,441,349	42,784,165
Jan.-Nov., 1938 ...	846,948,164	432,000,578	488,808,956
" 1937 ...	935,723,070	477,979,846	548,203,855
" 1936 ...	765,872,284	400,253,785	454,849,516

The figures for "Chemicals, etc." continue to exceed the average for the previous ten months, with the totals for imports and exports only slightly less than those recorded in the corresponding month of 1937 and still well above the relative figures for November, 1936. The totals for the eleven months show that the losses sustained in the earlier months of this year are now much less severe. Compared with 1937 imports are down by about £368,000 and exports by £1,970,000. The favourable trade balance of the industry stands at £8,587,257. The chief source of supply of our imports of chemicals and allied products continues to be Germany with totals of £350,258 and £3,730,632 for November and January-November, respectively. Shipments from other sources include: United States of America, £272,941 and £2,448,452; France, £86,867 and £925,894; Switzerland, £105,203 and £794,263; Belgium, £37,597 and £558,689, and Canada, £62,455 and £513,828. Empire countries continue to be by far the leading purchasers of our shipments, India taking £308,740 and £2,700,956 in the eleventh and eleven months, respectively; Australia, £218,035 and £1,877,594; Union of South Africa, £150,685 and £1,590,607; Canada, £141,763

Chemicals, Drugs Dyes and Colours	November			January-November		
	1938	1937	1936	1938	1937	1936
Imports ...	£'000 1,213	£'000 1,333	£'000 1,041	£'000 12,269	£'000 12,637	£'000 11,412
Exports of U.K. manufacture...	2,021	2,084	1,828	20,421	22,826	19,172
Re-exports ...	36.6	45.5	28.2	435	433.8	369.6

and £1,087,284; Eire, £98,791 and £1,047,997 and New Zealand, £69,942 and £750,443. Goods of this group

consigned to foreign countries include: United States of America, £69,407 and £854,516; France, £46,865 and £680,598; Argentine Republic, £71,405 and £631,260; Sweden, £41,883 and £508,731; Holland, £30,616 and £433,606, and Egypt, £89,360 and £427,976. Our shipments to Italy for the eleven months total £118,689 compared with £6,144 in 1936, and £232,109 against £131,584 in 1936 to Spain. Our shipments to China show a serious loss this year, amounting to £135,033, compared with £477,760 in the eleven months of 1937.

London Arbitration—Amended Rules

THE majority of shipments of crude drugs and similar produce imported into this country are bought and sold under the standard contract of the General Produce Brokers' Association of London. This contract, which is, of course, universally recognised, stipulates, amongst other conditions, that, in the event of a dispute arising, the matter shall be settled by arbitration in London, each of the parties to the contract appointing an arbitrator to act on their behalf, such arbitrators to be brokers on the G.P.B.A. panel. The experience of the past years has shown fairly conclusively that this apparently equitable method of settling disputes, mostly on questions of quality, had its defects. In the first place, some arbitrators thus appointed have appeared to interpret their duties to the extent of being advocates; they "took sides" instead of judging the cases on their merits. Secondly, with a comparatively limited number of broker arbitrators available (merchants being barred under the contract) disputes on the point of quality sometimes came before arbitrators who lacked good experience of the product in question. There is, of course in many crude drugs, a "standard" quality, and "this season's" quality. Expert knowledge is only attained by years of continuous handling of these commodities. Thirdly, the scale of fees chargeable on appeal is now considered by many to be rather excessive and tended to detract from one of the chief objects of settling disputes by arbitration.

These important matters have recently been considered by the Committee of the G.P.B.A. of London and at a general meeting of members the following amended Rules of Arbitration, in disputes on quality only, were approved and will come into operation on February 1, 1939:—

A number of non-brokers will be admitted to the Register of Arbitrators, particularly for those articles where there has been found to be a shortage of experts.

The arbitrators and umpire in disputes on quality will be appointed by the Association, not to act on behalf of buyer or seller, but simply to decide on the quality of the goods. Arbitrations will continue to be held in the offices of the first selling broker.

Buyers and sellers in disputes other than those on quality will continue to appoint their own arbitrators, who must be drawn from the Register. These arbitrators will appoint their own umpire. When both arbitrators are non-brokers the umpire must be a broker.

The appeal fees will be reduced from 10 guineas to 5 guineas on contracts under £1,000 in value of the appellant's contract, as it is thought that the present fees have prevented more use being made of the facilities for appeal in cases where the total value of the contract is small.

The appointment of arbitrators for quality will be in the hands of the acting president and two members of the general committee.

An advisory subcommittee will be appointed annually to assist the general committee. This subcommittee will include particularly brokers' market clerks and non-brokers from the Register of Arbitrators. It will consist of seven persons, three of whom must be brokers or their clerks. Its general aim would be to keep in touch with developments in the trade and to advise the general committee, but to have no executive powers.

The new rules will be welcomed by all concerned and will be an assurance to shippers and importers that their disputes will be dealt with efficiently and equitably. The inclusion of merchants on the panel of arbitrators is an especially progressive move, putting at the disposal of the trade men whose experience and knowledge of a wide range of drugs is unrivalled and it is to be hoped they will, as a duty, accept the invitations that will no doubt be extended to them.

Pharmacy and Poisons Act, 1933

THE Home Office has issued the following statement regarding the amendments of the Poisons List and Rules, the draft of which was published in the *C. & D.*, September 10, p. 251:—

Attention is drawn to the Poisons (Amendment) Rules, 1938 (S.R. & O. 1938, No. 1548), and the Poisons List (Amendment) Order, 1938 (S.R. & O. 1938, No. 1547), which were made by the Secretary of State on December 15, 1938, and will come into operation on January 1, 1939. Rule 7(4) of the Poisons Rules, 1935, has been amended so as to provide that a signed order for a First Schedule poison (not being a poison to which the Dangerous Drugs Acts apply) given by a duly qualified medical practitioner, registered dentist, registered veterinary surgeon, a hospital, infirmary, dispensary or clinic, need not contain a statement of the purpose for which the poison is required, if the seller is reasonably satisfied that the poison is required for the purpose of medical, dental or veterinary treatment.

Rule 17 has been re-enacted with amendments to permit the following new methods of labelling:—

- (1) When a poison is named specifically in the Poisons List and is the subject of a monograph in the British Pharmacopœia or the British Pharmaceutical Codex, one of the names at the head of the monograph in the British Pharmacopœia or the British Pharmaceutical Codex, as the case may be, may be used to describe the poison, instead of the term in the Poisons List.
- (2) A substance which is the subject of a monograph in the British Pharmacopœia or in the British Pharmaceutical Codex and any dilution, concentration or admixture of such a substance may be named with the name used to describe the substance in the British Pharmacopœia or in the British Pharmaceutical Codex with the addition of the letters B.P. or B.P.C. as the case may be. The similar provision already applicable to preparations, and to dilutions or admixtures of such preparations in the British Pharmacopœia or in the British Pharmaceutical Codex is now extended to concentrations of such preparations.
- (3) In the case of a preparation containing a poison mentioned in the first column of the Sixth Schedule to the Rules, it will be sufficient, where the name of a poison or substance is mentioned in the relevant particulars in the second column of that Schedule, to state the name of that poison or substance.
- (4) In the case of preparations derived from nux vomica or from opium and containing one or more alkaloids of nux vomica or of opium named in the Poisons List, it will be

sufficient to use the name "strychnine" or "morphine," as the case may be, or one of the names or abbreviated names of strychnine or morphine, as the case may be, set out at the head of the monographs in the British Pharmacopœia or the British Pharmaceutical Codex.

Substances are now included with preparations and surgical dressings in the provision contained in Rule 18(3) that, where they are named in accordance with Rule 17(2), the proportion of poison contained in them need not be stated on the label. The provisions of the same paragraph as to the method of expressing the proportion of poison in a dilution or admixture of a preparation so named are now extended to concentrations of such preparations and to dilutions, concentrations and admixtures of substances so named.

Other amendments to Rule 18 and to the Sixth Schedule enable the proportion of the poison in preparations containing nux vomica or opium, and in preparations derived from nux vomica or from opium and containing one or more alkaloids of nux vomica or of opium named in the Poisons List, to be stated in terms of the proportion of strychnine or of morphine respectively.

A further amendment to the Sixth Schedule enables the proportion of insulin in a preparation to be stated in terms of units of activity as defined in the British Pharmacopœia.

By an amendment to Rule 22(1) (b) glass bottles containing local anaesthetics for injection in the treatment of human or animal ailments will no longer be required to have a fluted outer surface.

Benzedrine and related substances (except when contained in inhalers—see next paragraph) are included in Part I of the Poisons List and also in the First Schedule and paragraph 1 of the Seventh Schedule to the Poisons Rules. Sulphanilamide and related substances are included in Part I of the Poisons List and also in the First and Fourth Schedules to the Poisons Rules.

Additions have been made to the Special Exemptions in Group II of the Third Schedule to the Poisons Rules, to exempt from all control under the Act and Rules benzedrine and related substances contained in inhalers, and dinitrocresols in substances other than preparations for the treatment of human ailments.

Amendments made in the Fifth Schedule to the Rules permit listed sellers to sell ointments containing nitrobenzene for the treatment of animals, and photographic solutions or materials containing metallic oxalates (other than potassium quadroxalate).

Trade-Mark Applications

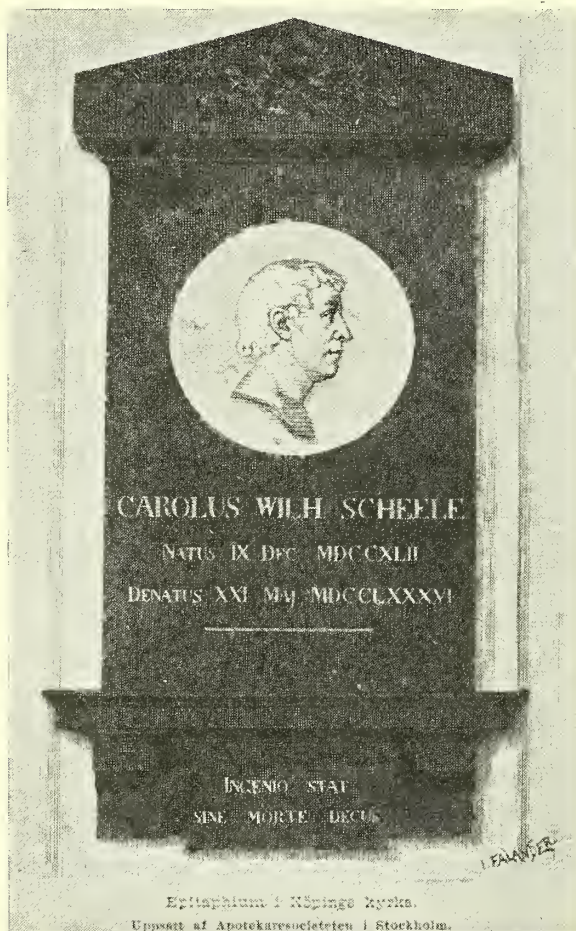
(From "The Trade Marks Journal," December 7, 1938)

SCHEDULE IV

- "ENSAVOL"; for hair-waving and setting solution (3). By Wella Rapid, Ltd., 5 Eden Street, Hampstead Road, London, N.W.1. 601,423.
- "DUSE"; for toilet lotions, not medicated (3). By Stablond Laboratories, Ltd., 128 Baker Street, London, W.1. 601,953.
- "AUTOMENTH"; for perfumery, etc. (3). By Ottó Mihály, 45 Podmaniczkyucca, Budajest VI, Hungary. 602,453.
- "BARLUZE"; for pharmaceutical substances and invalids' foods (5). By The Deason Chemical Co., Ltd., 133 New Bridge Street, Newcastle-on-Tyne. 600,280. (Associated.)
- "YEASTREL"; for infants' and invalids' foods containing yeast (5). By Brewers' Foods Supply Co., Ltd., 8 High Street, Linlithgow. 600,364. (Associated.)
- "ANACARDONE"; for cardiac stimulants (5); "DUOSELIX"; for scientific glassware (9). By The British Drug Houses, Ltd., Graham Street, City Road, London, N.1. 600,566/602,332.
- "MONOLATE"; for pharmaceutical substances for treatment of varicose veins (5). By Abbott Laboratories, corner of 14th Street and Sheridan Road, North Chicago, Illinois, U.S.A. 600,709.
- "ARGENTOSEPT"; for preparations containing silver nitrate for treatment of the stomach (5). By H. H. W. Fischer, 39 New-castle Drive, Nottingham. 600,851.
- "MOROLEX"; for insecticides and germicides (5). By A. F. Echberg, 296 High Holborn, London, W.C.1. 600,855.

- "PROLAC"; for milk foods (5). By Cow & Gate, Ltd., Cow & Gate House, Stoke Road, Guildford, Surrey. 600,896. (Associated.)
- "BRAMPULES"; for pharmaceutical substances (5). By Pharmaceutical Manufacturing Co., Ltd., 8 India Street, Minorities, London, E.C.3. 600,918.
- "STAGASINE"; for veterinary preparations (5). By Chapman & Son (Grimsby), Ltd., 235 Cleethorpe Road, Grimsby. 601,657.
- "AS-Go-Ma"; for pharmaceutical, veterinary substances, etc. (5). By Alfred H. Chovil, Tudor Cottage, Pamington, Tewkesbury, Glos. 601,935.
- "CELLOCAST"; for all goods, excluding medicated sweetmeats, dietetic and infants' foods, etc. (5). By T. J. Smith & Nephew, Neptune Street, Hull. 601,307.
- "EPANUTIN"; for pharmaceutical preparations (5). By Parke, Davis & Co., 50 Beak Street, London, W.1. 601,463.
- "VASELINE CAMPHOR ICE" on label device; for camphor ice (5). By Chesebrough Manufacturing Co., Consolidated, 17 State Street, New York, U.S.A. 602,124. (Associated.)
- "EUMATONA"; for medicated preparations (5). By Alfred Hirschfeld, 8 Jerinyn Street, Princes Avenue, Liverpool, 8. 602,271.
- "GRIP-TIGHT SOOTHER" on label device of baby's head (word "Grip-tight" disclaimed); for baby soothers, etc. (10). By Lewis Woolf, Ltd., 513 Bristol Road, Birmingham 29. 601,084.
- "HYGEX"; for surgical articles of india-rubber (10). By Vulco Chemical Co. (Proprietary), Ltd., 47 Eloff Street Extension, Stafford Township, Johannesburg, South Africa. 601,003.

Memories of Carl Wilhelm Scheele



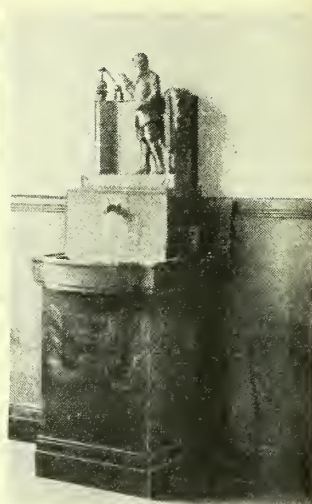
Scheele memorial tablet erected by the pharmacists of Stockholm.



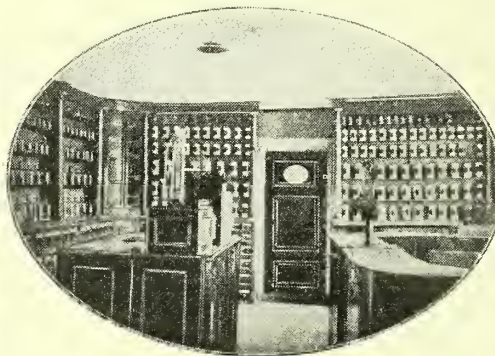
Wooden building of Scheele's pharmacy, Köping, 1777-86.



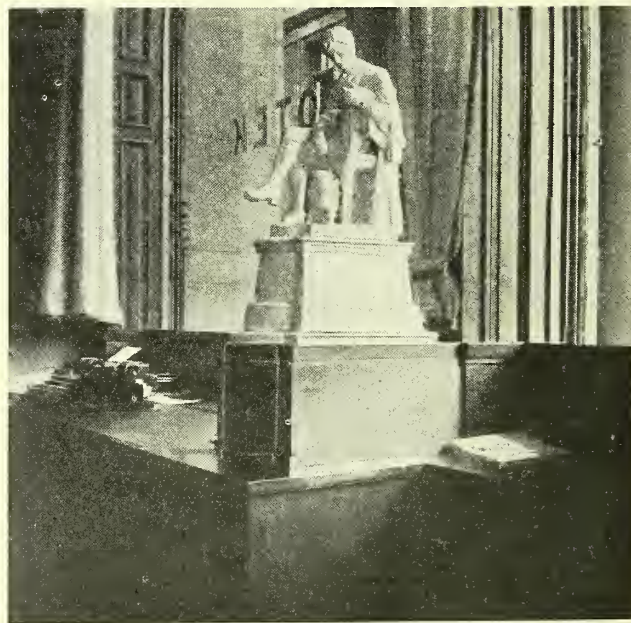
Lion pharmacy, Stockholm (Swedish royal pharmacy).



Bronze statuette in Scheele pharmacy, Stockholm.



*Left :
Interior of
Scheele's
pharmacy,
Köping, Sweden,
now in
Northern
Museum,
Stockholm.*



Statuette in Scheele pharmacy, Stockholm.

Carl Wilhelm Scheele, Apothecary

THE Pharmaceutical Society's second evening meeting of the session in Edinburgh was held at 36 York Place on December 16, Mr. W. Spence Culbert (chairman of the executive, North British Branch) presiding. The chairman, in introducing the speaker (Mr. William Mair, F.R.G.S., M.P.S.) referred to his long service in pharmacy. Mr. Mair then gave a lantern address on "Carl Wilhelm Scheele, Apothecary and Chemist."

The approaching centenary of the Society, said Mr. Mair, would call for a good deal of historiography; he suggested an historical section of the British Pharmaceutical Conference on the lines of that of the American Pharmaceutical Association, which had its historian (who was the editor-*emeritus* of its journal) and an official committee to collect material to present at the annual convention. A start had been made in this



Interior of Scheele's pharmacy at Köping, now in Northern Museum, Stockholm.

direction with the paper by Mr. J. P. Gilmour at the recent meeting of the British Pharmaceutical Conference on "Phases of Pharmacy in Edinburgh."

There was a German society for the study of the history of pharmacy, and Mr. Mair recalled that two medals are awarded annually at Edinburgh University, in the class "History of Medicine," in memory of the late Sir Henry S. Wellcome—one in gold, with £10 in cash, and one in silver, with £5 in cash. Mr. Mair went on to give a sketch, illustrated with lantern slides, many of which had not previously been seen in this country, of the life of the great Swedish discoverer of oxygen, hydrogen, chlorine, glycerin and many other important chemical substances, including ammonia. Scheele had been the first to prepare, among the organic acids, tartaric, citric,

benzoic, lactic, gallic and pyrogalllic; among the inorganic acids, nitric, arsenious, tungstic (from calcium tungstate, since called "Scheelite") and molybdic. He had discovered hydrofluoric acid, but, using glass vessels, produced fluo-silicic acid. Scientists owed to him their first knowledge of manganese and baryta and the description of manganese itself and of its salts, including manganates and permanganates. He had demonstrated that graphite, or plumbago, was a form of carbon; and the chemical nature of sulphuretted hydrogen, arseniuretted hydrogen and the pigment known by his name ("Scheele's green"—copper arsenite) were among the long list of his discoveries. He had investigated systematically the ordinary materials round about him in the pharmacy. Mr. Mair quoted from translations by Dr. Leonard Dobbin, F.R.S.Ed., from the Swedish and German originals—"Collected Papers of C. W. Scheele," 1931, relating to the discovery of hydrocyanic acid, his preparation of potassium cyanide and hydrocyanic acid being virtually the first synthesis of an organic compound, just as by his work on glycerin Scheele had been the founder of organic chemistry. "The principle" (HCN; there was no chemical notation then, nor any atomic weights) "has a peculiar, not unpleasant, smell, a taste which almost borders on sweet, also it provokes cough" ran the translation. Scheele had at that moment obviously no suspicion of the deadly nature of this and other substances which he had produced and tasted in the course of his experiments. All these achievements had been carried out in the course of his vocation as a working apothecary, with the most meagre of apparatus. He died in 1786 at the age of forty-three. He had been offered a Professorship at Berlin and had been elected to the Royal Swedish Academy—the only pharmacist who had ever attained to that distinction—but he was content to labour in his humble laboratory in the small town of Köping, on Lake Malar, consumed by his passion for chemistry with no thought of worldly gain or reward. Dr. Dobbin had clearly shown in these translations, which, he said, "mark the fulfilment of a long cherished desire, inspired by an intense

admiration for the wonderful chemical genius of their author," that Scheele's discovery of oxygen was at least a year prior to that of Priestley. Mr. James Grier, M.Sc., Ph.C., in his excellent "History of Pharmacy," 1937, had described Scheele as "the greatest chemical discoverer of his time," and referred to oxygen as "a gas discovered by Priestley in 1774." This, Mr. Mair suggested, must stand for the historicity of that part of the examinations. The delay in publication had been partly due to the printer in Leipzig, who held up Scheele's manuscript for two years. Photographs were projected of the pharmacy at Köping, a wooden building, and of the interior, the latter preserved intact in the Northern Museum, Stockholm. The purely professional standard of present-day pharmacy throughout Sweden (and in the other Scandinavian countries and Finland) was described by Mr. Mair and illustrated. It was noted that there are thirty-eight open pharmacies in Stockholm, as compared with 210 in Edinburgh, a capital with about the same population.

Contemporaries of Scheele

Some concluding notes were given of Scheele's contemporaries—Linnaeus, who was then in medical practice in Stockholm and afterwards Professor of Botany at Upsala; Priestley in England; Lavoisier in Paris. Sketching the position in Edinburgh in 1786, Mr. Mair mentioned that Joseph Black, M.D., who had discovered carbon dioxide and the theory of latent heat, was Professor of Chemistry; the University was taking classic shape under the famous architects Robert and James Adam; Professor James Gregory, M.D., was a physician and manager of the old Royal Infirmary and was then at the height of his fame as the most fashionable consultant in Edinburgh and indeed in Scotland. The Gregorian phsyic had been "free blood-letting, the cold affusion, frequent blisterings," tartar-emetic and the famous mixture which bears his name. This first appeared in the Edinburgh Pharmacopoeia of 1839 and became official in the B.P. of 1864; in that of 1885 with the synonym "Gregory's Powder," and in every edition since. Christison's "Dispensary," 1848, described it as "long familiarly known by that trite name." A portrait of Gregory by Sir Henry Raeburn was shown, painted in 1787, not at Raeburn's studio at 32 York Place, next door to the Pharmaceutical Society's two Edinburgh houses, but at an earlier studio in George Street. In the same year Raeburn painted the second Dr. Andrew Duncan (a portrait now in the possession of the Royal Medical Society, Edinburgh), who had founded in 1776 the Royal Public Dispensary, still a beneficent Edinburgh institution. Photographs of several memorials to Scheele were shown, among them the statue in Stockholm, erected in 1892, on the one hundred and fiftieth anniversary of his birth. In the same year a medal had been struck by "his grateful admirers the Guild of Pharmacists of Sweden," as the Latin superscription runs. As illustrating the advanced position of Scottish pharmacy in Scheele's time, there were exhibited at the meeting the Articles of Association of the fourteen or fifteen druggist-apothecaries of Edinburgh, instituted in 1783, and a complete series of the successive editions (fourteen in all) of the Edinburgh Pharmacopoeia, issued by the Royal College of Physicians of that city between 1699 and 1841—the first twelve in Latin; those of 1839 and 1841 the earliest in English. These were from the Pharmaceutical Society's Library at York Place and partly lent by the library of the University of Edinburgh. Acknowledgment was also made to the Society's librarian in London (Miss E. M. Smelt, B.Pharm., Ph.C.) for, among other rare books, C. W. Scheele's "Chemical Observations and Experiments on Air and Fire" (his discovery of oxygen), published in London in 1780, while he was still an obscure country pharmacist.

A monograph by Mr. Mair on the Ph.Ed. was presented to each one attending the meeting, being a reprint of an article which is appearing in "The Chemists' and Druggists' Year Book and Directory for Scotland, 1939." The lecture was followed by an interesting discussion taken part in by Mr. John Orr, M.D., F.R.C.P.E., and Mr. J. Rutherford Hill. On the motion of Mr. James Burnet, LL.B., M.D., F.R.C.P.E., seconded by Mr. William Beattie, a cordial vote of thanks was accorded to the lecturer, and on the motion of Mr. J. B. Mitchell (chairman of the branch) a vote of thanks was accorded to the chairman.

Acidosis and Alkalosis

A MEETING of the Glasgow and South Western Scottish Branch of the Pharmaceutical Society was held on December 14. Mr. John H. Ramsay, Ph.C., chairman, presided, and at the outset made sympathetic reference to the late Mr. Peter M. Duft, secretary of the Branch. The chairman then made a strong appeal for increased support for the Benevolent Fund, pointing out that Scotland actually received more from the Fund than she contributed. He also intimated that the Anthony Macmillan Memorial Fund had now been closed. The first medal struck would be presented to Mrs. MacMillan as a memento. It was announced that the date of the Burns Supper had been changed to Tuesday, January 24, 1939. Mr. Ramsay then introduced Professor N. Morris, M.D., D.Sc., professor of *Materia Medica and Therapeutics*, Glasgow University, who gave a lantern lecture on "Acidosis and Alkalosis."

Professor Morris said that the clinical conception of acidosis was in that stage when an over-sceptical attitude had been followed by credulity, with the result that many conditions were cheerfully labelled acidosis. It would be a practical and scientific loss to ignore the scientific foundation of acidosis. The treatment of chronic nephritis and diabetic coma had been considerably aided by the study of acidosis, while the treatment of tetany in children was based on the physiological studies in acid-base equilibrium. Normal life could not be sustained unless the reaction of the body and its fluids was kept practically constant. Metabolic processes, however, led to the formation of acids such as carbonic and lactic, and diets contained varying amounts of acid and alkali, both of these being disposed of by the digestive juices. The net result of these processes was that the body produced a great excess of acid over base, and this should not be thought of as merely evidence of morbid functioning but as physiological adjustments to alternations in the tissue fluids. Respiration and urinary excretion, by which means practically all the acid was eliminated, were influenced by many factors other than the presence of acid substances in the blood. Neither of the two possible deviations of acid-base equilibrium from normal—acidosis and alkalosis—was a disease entity, and their symptoms meant little unless their mode of production was understood.

Metabolic Disturbances

Neutralisation of acidosis by alkali was of comparatively little value unless it was recognised that the cause of the acidosis was a three-fold one, viz., loss of fluid, loss of salts, and increased production of ketones. Measures to be adopted in gastro-enteritis were the administration of abundant fluid, salts and glucose. Such treatment by dealing with the factors producing acidosis was usually sufficient to restore acid-base equilibrium to normal just as the removal of bacterial toxins was the best antipyretic. It was necessary to remember that acidosis might quickly become an emergency that had to be dealt with immediately to prevent a fatal issue. There were therefore two aspects of acid-base disturbance to be considered. Disturbances of metabolism might lead to excess of acid or alkali causing acidosis or alkalosis. In the second place acidosis and alkalosis led to attempts on the part of the body to deal with and compensate for the disturbance. Not infrequently these compensatory measures, if pushed to excess, produce further disturbances of metabolism which were serious. A knowledge of the compensatory measures carried through by the body made it possible to use artificial inducement of acidosis to obtain similar effects. Thus the fact that acidosis led to dehydration had been used in treating oedema. Professor Morris said there was no royal road to the diagnosis of acidosis or alkalosis. Acidosis, he thought, was a condition in which the reaction of the blood was less alkaline than normal and alkalosis a condition in which it was more alkaline than normal. Water and salt were important defences against acidosis, while defences against alkalosis were hæmato-respiratory, renal (phosphates, carbonates). Physiological variations in the acid-base were produced by exercise, food, heat and high altitudes. To treat acidosis one must prevent the formation of excess acid, neutralise excess acid and promote its excretion. Water and salt in the body must be replenished and the condition be treated as a collapse of the circulation. Sodium bicarb. was efficacious in conditions of cyclical vomiting. Following a discussion, in which Messrs. Stone, Meldrum, Mack and Dr. A. Wilson took part, Professor J. P. Todd, Glasgow, proposed a vote of thanks to Professor Morris.

Fifty Years' Service

MR. H. W. HARRIE, who is well known to many pharmacists as a representative of C. R. Harker, Stagg & Morgan, Ltd., wholesale and manufacturing chemists, London, recently completed fifty years' service with the firm. Mr. Harrie, who spent seventeen years inside the firm and thirty-three years on the road, and who comes from a family long associated with commercial travelling, has sent us the following account of some of his past experiences.

Straight from the Grocers' Company School, and armed with an introduction to Mr. Rowland Stagg, I entered the firm of C. R. Harker, Stagg & Morgan, London. I had many adventures, but soon discovered that I should have little liking for routine office work, and found myself mainly occupied by a variety of outside duties. I was kept busy in getting samples and prices, and collecting catalogues of the drug sales, which were then held every fourteen days. Collecting samples from brokers and other duties brought me into contact with many of the old wholesale druggists, drysalts and oil merchants in Mincing Lane. Later I was transferred to the tincture room, and was also initiated into the mysteries of the essential oil room. It was during this time that I took up evening classes in chemistry and physics at the City of London College, Moorfields. It was these studies that eventually secured for me an associateship of the College, and election as a Fellow of the Chemical Society.

About 1895 I found myself responsible for starting in my firm what is now an extensive part of the wholesale druggists' business, the packed goods department. In 1900 I became first assistant and finally senior demonstrator in chemistry at the College. Meanwhile I had been promoted in business to the firm's analytical laboratory. It was my privilege to have worked for fifteen years under the direction of Mr. F. G. J. Bird, who did much for pharmacy, particularly in connexion with the assay of certain drugs. His apparatus for alcohol recovery and his many papers to the British Pharmaceutical Conference all helped to raise the standard of pharmacy. A six weeks' holiday in Guy's Hospital, following a burn sustained in an explosion, and isolation following an attack of scarlet fever at an earlier date, were the only absences from business in fifty years I have to record. It was shortly after the South African War that I became manager of the manufacturing laboratory, and there spent the last five years of my time inside the firm. It was when the firm became a limited company as C. R. Harker, Stagg & Morgan, Ltd., that I started my work outside the house. Seventeen years of varied experience inside the house and thirty-three years on the road is tinged only with regret that few are left who remember the office-boy who was at the beck and call of everyone for the modest sum of 8s. per week, and that paid by monthly cheque.

As to my later experience as a knight of the pestle and of the road I could write much. The number of wholesale druggists that existed in my earlier days have mostly all suffered the fate of amalgamation and other vicissitudes of the modern business world. This development has had its reaction on the retailer, and has, I believe, induced a laziness on his part.

To those who now take to the road, I pass on the friendly advice given to me when starting. Say nothing of anyone unless it be good. Have a friendly regard and interest for the junior members of your customer's staff. Dress for business and not for sport, and learn when to smoke and when to refrain. Uphold the integrity and dignity of the commercial traveller and endeavour at all times to place the customer under an obligation to you by service only.

In spite of a full life I have found time to spend on other interests. My activities outside business have included eleven years as secretary of the Bournemouth Branch of the Commercial Travellers' Association, eighteen years on the London Committee of the Commercial Travellers' Benefit Society, and twelve years as treasurer. I was also a founder, and am a present arbitrator of the Chemists' Sickness and Provident Society, a past Master of St. James' Lodge 1579, and still a corresponding member of the B.P.C. My greatest measure of thankfulness comes from the fact that in spite of all the varying fortunes which have fallen upon the wholesaler, the firm with whom I associated is still here for me to serve.

McKesson & Robbins, Inc.

In the course of a public inquiry into the affairs of McKesson & Robbins, Inc., wholesale druggists, New York, whose managing director, Donald Coster, alias Musica, shot himself prior to arrest on certain charges, a Boston lawyer, Mr. Frederick Wingersky, read details of a contract he had drawn up in May 1938 regarding the sale of arms abroad. Mr. Wingersky read from a copy he had kept; he did not know what had become of the original, which authorised purchase of rifles and ammunition. Three surviving brothers of the shot man have been indicted on charges of larceny and forgery.

The following is the text of a cable received in London this week from the New York Quinine & Chemical Works, Inc., Brooklyn, New York:—"Messrs. Irving and Donald McKesson, who are presently engaged in the chemical manufacturing business (New York Quinine & Chemical Works, Inc.), to-day issued the following statement: Messrs. Irving and Donald McKesson wish to state that so far as they know no member of the McKesson family is in any way connected with McKesson & Robbins, Incorporated, the company whose affairs are now being investigated by various authorities. The original firm of McKesson & Robbins was formed in 1833 by John McKesson and Daniel C. Robbins. John McKesson was the grandfather of Messrs. Irving and Donald McKesson. The partnership business was incorporated in New York in 1916 after the death of the father of Messrs. Irving and Donald McKesson. In 1924 the board of directors was divided as to the future policies for the business and as a deadlock existed it was decided to divide the business

between the McKesson family group and those opposed to them, all of which was done in 1925. The McKesson family group took the chemical manufacturing business and its allied lines and the opposing group took the wholesale drug business with the pharmaceutical and special medicinal lines, including the corporate name. The new owners of McKesson & Robbins, Incorporated, dissolved it and formed a Connecticut Corporation which in turn was acquired by a Maryland Corporation of the same name, which latter corporation is the one whose financial difficulties are now so much mentioned in the public Press. Since 1925 the McKesson family have had no interest in McKesson & Robbins, Incorporated, and no member of that family is directly or indirectly responsible for any of that corporation's present difficulties.

C. F. GERHARDT, LTD., 5 Fenchurch Street, London, E.C.3, drug and produce merchants, have handed us the following statement: "For about sixty years prior to 1926 the old-established drug firm of McKesson & Robbins, of New York, was represented in London by C. F. Gerhardt, Ltd. They were one of the largest buyers at the public drug auctions before the war, chiefly for the New York company's account, who, at that time bought most of their Eastern drugs through London. At the same time McKesson & Robbins shipped all their American botanicals and drugs to London. Their ship-

ping mark  K was well-known and accepted as a guarantee of good quality. From 1926, when the McKesson & Robbins business was sold, Messrs. Gerhardt ceased to have any connexions with the new owners.

U.S.A. Synthetic Aromatics Production

A RECENT issue of "World Trade Notes," issued by the Department of Commerce, Washington, contains the following particulars of production of synthetic perfumery and flavouring materials and aromatics in America.

Production of synthetic flavours and perfume materials in the United States in 1937 totalled 6,140,362 lb., according to preliminary figures released by the Tariff Commission, as against the 1936 output of 4,670,107 lb.

	1936			1937		
	Production	Sales		Production	Sales	
	Lb.	Lb.	\$	Lb.	Lb.	\$
Coal tar :—						
Acetophenone	13,773	—	—	16,585	—	—
Amyl cinnamic aldehyde	29,459	27,400	53,358	50,187	48,198	86,985
Amyl salicylate	42,074	40,898	19,949	46,500	46,170	22,331
Benzyl butyrate	—	182	298	236	178	269
Benzyl propionate	789	606	925	1,429	1,247	2,089
Benzyl salicylate	4,365	4,183	6,554	3,776	3,833	5,401
Cinnamic aldehyde	6,459	7,052	7,361	27,477	17,185	16,282
Coumarin (synthetic)	109,156	137,506	360,496	216,767	186,325	488,939
Ethyl benzoate	2,140	1,852	1,861	1,797	1,653	1,620
Ethyl salicylate	—	401	369	599	432	423
Methyl salicylate	1,593,381	1,650,542	510,007	1,677,329	1,538,599	497,504
Musk ketone	7,738	7,165	28,661	—	8,131	29,843
Musk xylol	46,673	49,773	58,556	56,741	55,945	60,765
Penylethyl alcohol	138,152	122,573	264,912	107,320	137,091	251,973
Vanillin	314,891	293,501	912,780	368,330	370,930	1,213,052
Non-Coal Tar :—						
Citral	26,714	25,079	45,787	27,963	24,733	38,254
Citronellyl acetate	56	—	—	38	22	62
Ethyl butyrate	45,920	42,930	26,924	38,611	36,483	23,846
Ethyl ceanthate	—	3,331	2,526	4,773	4,526	3,416
Ethyl oxyhydrate	17,588	—	—	15,779	13,652	9,494
Geraniol	211,610	205,239	155,215	368,341	327,600	211,790
Geranyl acetate	14,456	—	—	14,921	11,093	11,956
Heliotropin	36,178	27,469	49,681	41,884	—	—
Ionone	42,503	42,209	89,272	52,383	48,605	89,392
Isoamyl formate	289	417	412	552	310	282
Isoamyl isovalerate	1,165	1,148	1,859	1,284	881	1,496
Methyl ionone	17,295	16,498	41,776	32,892	26,780	68,018
Rhodinol	5,432	4,204	62,230	6,346	4,447	61,622
Terpineol	405,120	477,654	92,629	781,152	733,070	147,798

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, December 22

BUSINESS this week has fallen off considerably, with most orders for limited and urgent requirements. Consumers, as usual, do not wish to load up their stocks prior to the end-of-the-year stocktaking. The demand for export has also been rather less than earlier in the month. Revised Rules of Arbitration have been issued by the London Produce Brokers' Association. Various improvements have been adopted; details are given on p. 690 of this issue. Authoritative and exclusive statements regarding the inquiry into the affairs of one of the leading American drug companies are published on p. 695. BUSINESS in PHARMACEUTICAL CHEMICALS has been of small account this week, but it is expected that the sudden and sharp change in climatic conditions will result in an increased demand immediately after the holidays. The new scales of prices of ASPIRIN, powder and tablets; reported last week, continue steady. Continental CAFFEINE and THEOBROMINE show no further change. Convention prices for TERPINEOL have been reduced and are now at very low levels.

Crude Drugs

A moderate routine spot business is recorded with the general tone steady to firm in most commodities. At the further advances there has been a brisk spot demand for AGAR; shipment quotations for new crop are also dearer. Although spot values for Curaçao ALOES are high the demand is quite good; at the further advance the market is very strong. BUCHU is rather easier and dull. Shipment prices for CARDAMOMS are reported to be again dearer and most spot holders have withdrawn from the market. Moderate spot business in CASCARA SAGRADA at steady prices. The tone in the ERGOT market is a little better. Shipment prices for Sudan GUM ACACIA are maintained at the recent advance. Holders of Matto Grosso IPECACUANHA tend to slightly discount their former prices, but business is still poor. The demand for Japanese MENTHOL has remained quiet, but prices show but little variation. Supplies of the rough round variety of RHUBARB are limited on spot; no shipment offers. RUBBER shows a further small recovery this week.

Essential Oils

Dealers report the call for most of these products continues distinctly limited. Prices, many of which are at low levels, are fairly steady. With the demand poor, spot holders of ANISE (STAR) tend to shade their former quotations. New crop BERGAMOT is now quoted for shipment; the crop is reported to be less than average in volume and late. Japanese CAMPHOR, which is very scarce, is quoted sharply dearer again; no shipment offers. CASSIA remains dull and easy as quoted. Shipment quotations for 80 to 85 per cent. EUCALYPTUS have been advanced. HO (SHIU) is scarce on spot and firm; no shipment offers. The latest quotations for new crop Sicilian hand-pressed LEMON show a further decline, but buyers prefer to await developments. The Californian cold-pressed oil is attracting some attention. Japanese PEPPERMINT has sold quietly on spot; the position at the source appears to be fully steady on quotations for shipment early next year. Some, at least, of the shipments due for the October-December position, look like being late. WORMSEED is quoted much cheaper, spot and forward.

Exchange Rates on London

Centre	Quoted	Par	December 15	December 22
Amsterdam ...	Fls. to £	12·107	8·59	8·57
Berlin ...	Mks. to £	20·43	11·64	11·62
Brussels ...	Belgas to £	nominal	27·70	27·65
Copenhagen ...	Kr. to £	18·159	22·40	22·40
Lisbon ...	Esc. to £	110	110½	110
Madrid ...	Ptas. to £	25·24½	nominal	nominal
Milan ...	Lire to £	92·46	88½	88½
Montreal ...	Dols. to £	4·86½	4·71½	4·70
New York ...	Dols. to £	nominal	4·66½	4·65½
Oslo ...	Kr. to £	18·159	19·90	19·90
Paris ...	Fr. to £	124·21	177½	177½
Prague ...	Kr. to £	164·25	136½	135½
Stockholm ...	Kr. to £	18·150	19·40	19·40
Warsaw ...	Zloty to £	43·38	24½	24½
Zurich ...	Frs. to £	25·2115	20·64	20·62

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

A SMALL routine business only reported. The revised scales of prices for aspirin, powder and tablets, and Continental caffeine and theobromine continue steady at the figures recorded last week.

ASPIRIN.—Makers' scales of prices have been reduced by 4d. per lb. The new prices, which came into force on December 12, are:—

In containers of	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1 lb. and under 4 lb. ...	3 3	3 1½	—	—	—	—
4 lb. and under 7 lb. ...	3 2	3 0½	3 0½	—	—	—
7 lb. and under 14 lb. ...	3 1	2 11	2 11½	2 10½	—	—
14 lb. and under 28 lb. ...	3 0	2 10½	2 10½	2 9½	—	—
28 lb. and under 1 cwt. ...	2 11	2 9½	2 9½	2 8½	2 9½	2 8
Not less than 1 cwt. ...	2 7½	2 6	2 5½	2 5½	2 5	2 4½
Not less than 5 cwt. ...	2 7	2 5½	2 5½	2 4½	2 4½	2 4
Not less than 10 cwt. ...	2 6	2 4½	2 4½	2 3½	2 3½	2 3

The quotations for aspirin, powder and tablets, are subject to the following conditions:—Buyers not to resell any quantity at prices or terms below the scale for such quantity current at the time the resale is made, and, if he converts the aspirin into tablets, not to sell any quantity of tablets at prices or terms below the scale for such quantity current at the time when he sells the tablets.

ASPIRIN (TABLETS).—The agreed scale of prices for bulk quantities was reduced as from December 12 as follows: Under 5,000, 2s. 10d. per 1,000 tablets; 5,000, 2s. 8d.; 10,000, 2s. 7d.; 25,000, 2s. 5d.; 50,000, 2s. 4d.; 100,000, 2s. 3d.; 250,000, 2s. 2½d.; 500,000, 2s. 2d.; 1,000,000, 2s. 1d. per 1,000 tablets. Wholesale distributors' prices for small quantities would be at higher figures.

BARBITONE.—Dull and unsteady: spot, two cwt., 8s. 11d.; 56 lb., 9s. 2d.; less than 56 lb., 9s. 5d. per lb.

BENZOIC ACID (B.P.).—Quoted unchanged, inquiry moderate: five cwt., 1s. 7½d.; one cwt., 1s. 8d.; smaller parcels, from 1s. 9d. to 2s. 2d. per lb., ex store, as to quantity.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, B.P., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb. net. Resale clause applies. 28-lb. parcels and one-cwt. cases free. Smaller quantities than 28 lb. at higher prices. Export quotations are maintained as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Market remains quiet: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—The new scales of prices for Continental materials continue steady, as follows:—PURE: bricks, less than 56 lb., 9s. 9½d.; 56 lb., 9s. 7½d.; one cwt., 9s. 5½d. per lb. Powder, less than 56 lb., 10s. 1d.; 56 lb., 9s. 11d.; one cwt., 9s. 9d. per lb. Anhydrous powder, less than 56 lb., 10s. 6d.; 56 lb., 10s. 4d.; one cwt., 10s. 2d. per lb. CITRATE: less than 56 lb., 6s. 6½d.; 56 lb., 6s. 5½d.; one cwt., 6s. 4½d. per lb. Delivered United Kingdom, duty paid. Cases and 5-lb. tins free.

CHLORAL HYDRATE.—Steady at makers' prices; duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Market is quiet: British material quoted at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COCAINE.—British makers' prices for wholesale bulk quantities are quoted as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 6d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE, CITRATE and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scales of prices applicable to distributors of smaller quantities are as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE, CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.; ½ oz. and less than 1 oz., 40s. 8d.; ¼ oz. and less than ½ oz., 43s. 8d. per oz., packages extra. Resale: Sales subject to buyers undertaking not to resell any quantity below the scale

of prices for such quantity current at the time of resale. Export prices vary according to destination.

CREAM OF TARTAR.—Remains quiet: British material, 99 to 100 per cent., 92s. per cwt., less $2\frac{1}{2}$ per cent. discount. Dealers' prices for foreign material competitive.

CREOSOTE (B.P.).—Market is dull: bulk quantities, in 25-kilo demijohns, 1s. 6d.; small parcels, 1s. 7 $\frac{1}{2}$ d. up to 2s. per lb., ex store.

EPHEDRINE.—Quotations for the chief salt are steadily maintained: Hydrochloride, B.P., quoted at about 6s. per oz. for minimum 1,000-oz. lots; small quantities, up to 7s. Pure alkaloid is quoted from 7s. 9d. to 8s. 3d. per oz., as to quantity.

GALLIC ACID.—Inquiry is slow: spot, one cwt., 3s.; 56 lb., 3s. 1d.; smaller parcels, up to 3s. 6d. per lb.

GLYCERIN (B.P.).—Makers' scales of prices are unchanged:—

PRICE PER CWT.

Contracts of Spot Lots of	Under 1 cwt.	1 cwt. and under 2 $\frac{1}{2}$ cwt.	2 $\frac{1}{2}$ cwt. and under 5 cwt.	5 cwt. and under 10 cwt.	10 cwt. and under 20 cwt.
Minimum deliveries off contract of	—	1 cwt.	1 cwt.	1 cwt.	2 cwt.
Tins, 14 lb. each per cwt.	97/6	93/-	92/-	89/-	88/-
Tins, 28 lb. "	94/6	90/6	89/6	86/6	85/6
Tins, 56 lb. "	91/6	88/-	87/-	84/-	83/-
Drums, 1 cwt. (charged 20/-) ..	—	83/6	82/6	79/6	78/6
Drums, 2 $\frac{1}{2}$ cwt. (" 60/-) ..	—	—	80/6	77/6	76/6
Drums, 5 cwt. (" 75/-) ..	—	—	—	77/-	76/-
Drums, 10 cwt. (" 100/-) ..	—	—	—	—	75/6
Extra per cwt. for smaller deliveries	5 cwt. and under 10 cwt.	—	—	—	—
ex contract than 1 cwt. and under 5 cwt.	2 cwt. and under 5 cwt.	—	—	—	—
as above specified	Under 1 cwt.	1/-	1/-	1/-	6d.
					1/6

Refined pale straw industrial glycerin, 1.260 S.G. at 5s. per cwt. less than the chemically pure.

LACTIC ACID (B.P.).—Spot quotations are steady: quantities, in carboys, 1s. 4 $\frac{1}{2}$ d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. up to 2s. per lb., as to quantity.

MERCURIALS.—Makers' prices for these products continue steady at the advance of 6d. per lb. recently recorded. Terms net, without engagement. Special prices for larger quantities and contracts. Bulk prices for assorted salts.

	Less than 28 lb.	Not less than 28 lb.	Not less than 112 lb.
	s. d.	s. d.	s. d.
Ammoniated Lump B.P. (White Precip.) ...	6 4	6 0	5 11
" Powder B.P.	6 6	6 2	6 1
Bichloride Lump B.P. (Corros. Sub.) ...	5 7	5 3	5 2
" Powder B.P.	5 3	4 11	4 10
Chloride B.P. Calomel	6 4	6 0	5 11
Red Oxide Cryst. B.P.C. (Red Precip.) ...	7 5	7 1	7 0
" Levig. B.P.C.	6 11	6 7	6 6
Yellow Oxide B.P.	6 9	6 5	6 4
Persulphate White	6 6	6 2	6 1
Sulphide Black (Hyd. Sulph. cum. Sulph. 50%)	6 5	6 1	6 0

METHYL SALICYLATE.—Moderate business, with the scale of prices unchanged: spot, ten cwt., 1s. 1 $\frac{1}{2}$ d.; five cwt., 1s. 2d.; one cwt., 1s. 2 $\frac{1}{2}$ d.; less than one cwt., 1s. 3d.; smaller quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Dealers' spot quotations competitive: two cwt., 19s. 3 $\frac{1}{2}$ d.; one cwt., 19s. 9 $\frac{1}{2}$ d.; 56 lb., 20s. 2 $\frac{1}{2}$ d.; small parcels, up to 20s. 8d. per lb.

PARAORMALDEHYDE.—Quiet, values steady: 100 per cent. powder, quantities, in kegs, 1s.; smaller parcels, from 1s. 1 $\frac{1}{2}$ d. to 1s. 6d. per lb., as to quantity.

PARALDEHYDE.—Values are unchanged: in carboys, quoted from about 1s. 2d., and in winchesters from 1s. 5d. to 1s. 6d. per lb.

PHENACETIN.—Steady, limited business: crystals or powder, bulk quantities, from 2s. 6d.; smaller parcels, 2s. 7d. up to 3s. per lb., as to quantity.

PHENAZONE.—Quiet, with quotations competitive: crystals, five cwt., 6s. 9 $\frac{1}{2}$ d.; two cwt., 7s.; one cwt., 7s. 3d.; and less, up to 7s. 6d. per lb., with powder 2 $\frac{1}{2}$ d. per lb. extra.

PHENOLPHTHALEIN.—Market continues steady: two cwt., 2s. 9d.; one cwt., 2s. 10d.; 28 lb., 3s.; 14 lb., 3s. 1d.; 7 lb., 3s. 2d.; smaller parcels, up to 3s. 6d. per lb.

PHENYLETHYLBARBITURIC ACID.—Dealers' prices, in 2-lb. bottles, are in the region of 16s. to 17s. per lb., as to quantity.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are as follows: AMIDOL.—28 lb., 8s.; 14 lb., 8s. 9d.; 7 lb., 9s. 6d., in free 7-lb. tins; under 7 lb., 12s. per lb., in free 1-lb. bottles. CHLOROQUINOL.—1-lb. bottles, 21s. per lb. GLYCIN.—7 lb., 10s. 6d.; 1-lb. bottles, 13s. 6d. per lb. HYDROQUINONE.—56 lb., 4s. 10 $\frac{1}{2}$ d.; 28 lb., 5s.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; in 1-lb. bottles, 6s. 6d. per lb. METOL.—28 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d., tins free; 3 lb., 12s., bottles free; 1-lb.

bottles, 12s. 6d. per lb., bottles free. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 21s. per cwt.; 28 lb. for 6s. GOLD CHLORIDE.—15-gtain tubes, 45s. per doz. MAGNESIUM POWDER.—10s. per lb. PARAMIDOPHENOL HYDROCHLOR.—8s. 6d. per lb., bottles free. POTASSIUM FERRICYANIDE.—14 lb., 2s. 2d.; 7 lb., 2s. 4d.; 1 lb., 2s. 6d. per lb. POTASSIUM METABISULPHITE.—One cwt., 8d.; 28 lb., 9d.; 14 lb., 10d.; 7 lb., 1s. per lb. PYROGALLIC ACID, CRYST.—28 lb., 7s. 3d.; 14 lb., 8s.; 7 lb., 8s. 9d.; under 7 lb., 9s. 3d. per lb. SODIUM (CARBONATE RECRYST.).—5 cwt., 12s. 6d. per cwt.; 1 cwt., 15s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM HYPOSULPHITE, CUBES, CRYST.—5 cwt., 17s.; 1 cwt., 19s. 6d. per cwt.; 56 lb. for 11s. 6d.; 28 lb. for 6s. SODIUM SULPHITE (PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles and jars free. SODIUM SULPHIDE, RECRYST.—One cwt., 21s. 6d. per cwt.; 56 lb. for 13s. 6d.; 28 lb. for 7s.

POTASSIUM PERMANGANATE (B.P.).—British makers' scale of prices for home trade is as follows: Not less than one cwt., 10 $\frac{1}{2}$ d.; not less than three cwt., 10d., in drums; not less than 5 cwt., 9 $\frac{1}{2}$ d. in 1-cwt. drums and 9 $\frac{1}{2}$ d. in 5-cwt. drums, net, delivered buyer's station, drums free. Technical or commercial quality, one cwt., 96s.; three cwt., 91s. 6d.; five cwt., 89s.; one ton, 86s. 6d. per cwt., in 1-cwt. drums.

POTASSIUM SULPHOGUAIACOLATE.—The spot value is steady in the region of 6s. 2d. per lb., as to quantity.

QUININE SALTS.—Convention prices continue steady at the recent advance: sulphate, 2s. 3d.; bisulphate, 2s. 3d.; ethyl carbonate, 2s. 11d.; salicylate, 2s. 11 $\frac{1}{2}$ d.; hydrochloride, 2s. 10d.; dihydrochloride, 3s. 1 $\frac{1}{2}$ d.; hydrobromide, 2s. 10d.; dihydrobromide, 3s. 1 $\frac{1}{2}$ d.; valerianate, 3s. 9 $\frac{1}{2}$ d.; phosphate, 3s. 5 $\frac{1}{2}$ d.; hydrophosphate, 4s. 1 $\frac{1}{2}$ d.; alkaloid, 3s. 1 $\frac{1}{2}$ d. per oz., 100-oz. tins free, carriage paid on bulk quantities.

ROCHELLE SALTS.—Makers' prices are steady:—

	Pulv. Sod. Pot. Tart. B.P.	Pulv. Seidlitz	Double Seidlitz
	Per cwt. s. d.	Per cwt. s. d.	Per cwt. s. d.
Under 1 cwt.	85 0	68 0	76 5
Under 5 cwt.	82 6	66 3	73 3
Over 5 cwt. in one delivery ...	80 0	64 3	71 0

Soda pot. tart. cryst. at 2s. 6d. per cwt. extra to powder, net, 14 days. Special prices for quantities. Contracts accepted subject to a rise and fall clause.

RESORCIN.—Makers' prices; no imported material: 56 lb., 5s. 6d.; 28 lb., 5s. 7d.; 14 lb., 5s. 9d.; 7 lb., 6s.; smaller parcels, up to 6s. 6d. per lb.

SACCHARIN.—Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Makers' prices are unchanged, limited business: five cwt., 1s. 7d.; one cwt., 1s. 7 $\frac{1}{2}$ d.; 28 lb., 1s. 10d.; 14 lb., 1s. 11d.; 7 lb., 2s. 0 $\frac{1}{2}$ d.; 4 lb., 2s. 2 $\frac{1}{2}$ d. per lb.

SALOL.—Market continues keen for bulk quantities: 2s. 2d. to 2s. 4d. per lb., as to quantity.

SANTONIN.—Market is dull: bulk quantities, £10 5s.; and small parcels, up to about £12 10s. per kilogram.

SODIUM BENZOATE (B.P.).—Fair inquiry, quoted steady: five cwt., 1s. 3 $\frac{1}{2}$ d.; one cwt., 1s. 4d.; smaller parcels, from 1s. 5d. to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Not much inquiry: spot, one cwt., 11s.; 28 lb., 11s. 3d.; 14 lb., 11s. 6d.; 7 lb., 11s. 9d.; smaller parcels, up to 12s. 3d. per lb.

SODIUM SALICYLATE (B.P.).—Moderate business, makers' prices are unchanged: home trade, crystals or powder, five cwt., 1s. 5 $\frac{1}{2}$ d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10 $\frac{1}{2}$ d.; 7 lb., 1s. 11 $\frac{1}{2}$ d.; 1 lb., 2s. 4d. per lb.

SULPHONAL.—Market slack: crystals or powder, two cwt., 15s. 5 $\frac{1}{2}$ d.; one cwt., 15s. 10 $\frac{1}{2}$ d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7 $\frac{1}{2}$ d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Market continues unchanged: British makers quote at 1s. 1 $\frac{1}{2}$ d. per lb., less 5 per cent. discount, dealers offering foreign materials at competitive prices.

TERPINEOL.—Convention prices have been reduced, as follows: ten cwt., 1s. 2d.; five cwt., 1s. 2 $\frac{1}{2}$ d.; one cwt., 1s. 3d.; smaller quantities, up to 1s. 6d. per lb.

THEOBROMINE.—The new scales of prices for Continental material continue steady, as follows: Pure, less than 56 lb., 8s. 8 $\frac{1}{2}$ d.; 56 lb., 8s. 6 $\frac{1}{2}$ d.; one cwt., 8s. 4 $\frac{1}{2}$ d. per lb. Soda sal., less than 56 lb., 6s. 10d.; 56 lb., 6s. 9d.; one cwt., 6s. 8d. per lb., delivered United Kingdom, duty paid. Cases and 5-lb. tins free. Smaller packings extra.

THYMOL.—Synthetic, fine white, one cwt., 6s.; 56 lb., 6s. 4d.; 28 lb., 6s. 9d.; less than 28 lb., 7s. 6d. per lb., tins extra; ex ajowan seed, one cwt., 8s. 5d.; 56 lb., 8s. 10 $\frac{1}{2}$ d.; 28 lb., 9s. 5d.; 14 lb., 10s. 6d. per lb.

VANILLIN.—Convention prices for home trade are unchanged: ex clove oil or guaiacol, five cwt., 11s.; one cwt., 11s. 1 $\frac{1}{2}$ d.; 56 lb., 11s. 3d.; smaller quantities, 11s. 6d. per lb.

Crude Drugs, etc.

AGAR.—Good spot business continues at advancing prices, but sellers are still asking less than cost of replacement. Stocks here are running low. Shipment prices show a further sharp advance, with the position reported very strong on account of poor crop this season, which is estimated at quite 30 per cent. less than the previous season: spot, Kobe, No. 1, 3s. 7d.; No. 2, 3s. 5d.; Yokohama, No. 1, 3s. 4½d. per lb.; shipment, new crop, January-February, Kobe, No. 1, 3s. 5d. to 3s. 6d., as to shipper; February-March, Kobe, No. 2, up to 3s. 3d.; Yokohama, No. 1, 3s. 1d. per lb., c.i.f.

ALOES.—A steady demand for Curaçao despite present high prices, and the position generally is very firm: Cape, spot, in boxes, 54s.; shipment, 46s. per cwt., c.i.f. Curaçao, spot, 175s. for coarse up to 190s. for livery. Shipment, possibly a re-seller, at about 170s., c.i.f. Nothing from the source.

ANTIMONY.—Chinese metal is quoted cheaper: Chinese, crude, spot, £37; shipment, December-January, £30, c.i.f. English regulus, £71 per ton, ex store.

BALSAMS.—Quiet, quoted steadily: *Tolu*, 1s. 9d.; *Canada*, 3s.; shipment, 2s. 10d.; *Copaiba*, 1s. 8d.; *Peru*, 4s. 1½d. per lb., spot.

BELLADONNA.—Root continues in short supply, on spot: leaves, 56s.; root, nominal per cwt., spot.

BENZON.—Market is slack, but steady: benzoin quoted steady at 70s. to 90s. per cwt., as to quality. Siam, medium almonds, £26 10s.; bean and pea, £21 per cwt., ex store.

BUCHU.—Market is rather easier, with business of little importance: rounds, 1s. 3½d. to 1s. 5d., as to quality; ovals, about 1s. 3d. Last season's ovals, at about 1s. 2d. per lb., in bale lots. No prices for next season's leaves.

CAMPHOR.—Only a few cases reported called for on spot; values steady: Japanese monopoly BB brand, £7 10s. per 100 lb.; Japanese, natural, spot, tablets, 2s. 6d.; powder, 2s. 3d.; slabs, 2s. 2½d. per lb., ex store; shipment, tablets, 2s. 2d.; powder, 1s. 10½d.; slabs, 1s. 10½d. per lb., c.i.f.; English refined flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz. and ¼ oz., 3s. 6d.

CANTHARIDES.—Not much demand: Russian, 4s. 3d. to 4s. 6d. Chinese, spot, about 2s. per lb., as to quantity.

CARDAMOMS.—This market is very firm at advancing prices, and most holders have withdrawn from the market.

CASCARA SAGRADA.—Moderate small parcel business; market very steady: spot, 1938 bark, 52s. 6d.; 1937 bark, 57s. 6d.; 1936 bark, up to 65s. per cwt., ex store, duty paid. No shipment offers from the source.

CLOVES.—Madagascar spice is quoted slightly cheaper: Zanzibar, spot, 8½d.; shipment, January-February, 8½d. per lb., c.i.f. Madagascar, in bond, 7½d.; shipment, January-February, 6½d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended December 17 were *nil*, and the deliveries 5, leaving a stock of 40t. From January 1 to date the landings of Zanzibar have been 2,446 and the deliveries 3,441. Landings of Madagascar for the week ended December 17 were *nil*, and the deliveries 64, leaving a stock of 494. From January 1 to date the landings of Madagascar have been 1,586 and the deliveries 3,190 packages.

COCOA BUTTER.—Market steady, quiet: prime English, 8½d. to 10d. per lb.; foreign, 7½d. to 9d. per lb., as to quantity and quality.

COCONUT (DESICCATED).—Market continues steady, business quiet: spot, fine, 16s. 9d.; medium, 17s. 3d. per cwt.; shipment, halves, December-January, 16s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market continues dull, with the quotation about unchanged: finest Lofoten steam-refined non-freezing medicinal oil, 86s. per barrel, c.i.f., London. Small lots, on spot, about 132s. 6d. per barrel, ex store, duty paid. British finest medicinal oil, 115s. per 25-gallon drum, delivered U.K., with rebates for 25 or more drums.

DAMIANA LEAVES.—Business quiet: spot supplies of new leaves at about 8½d. to 9d. per lb., ex store.

DANDELION ROOT.—Good clean foreign root is available at about 64s. to 66s. per cwt., as to quantity and quality.

ERGOT.—Rather steadier, with a little more interest shown: Spanish, old crop, 4s. 1d.; Portuguese, spot, 4s. 3d. to 4s. 4½d.; shipment, about 3s. 10d., c.i.f. Polish, spot, about 3s. 8d. per lb., as to seller and quantity. No Russian available.

GENTIAN.—A small spot demand: good clean French root about 32s. 6d. and Continental about 30s. per cwt., ex store.

GINGER.—This market remains dull and quoted cheaply: West African, spot, 22s. 6d.; for arrival, 20s.; new crop, January-March, 20s. 6d. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 65s. to 75s.; medium bold, in bags, 47s.; small grinding, in bags, 40s. to 42s. 6d. per cwt., c.i.f.

GUM ACACIA.—The shipment market continues steady at the recent improvement: Kordofan, cleaned sorts, spot, 39s. 6d.; shipment, 37s. 6d. per cwt., c.i.f.

HENNA.—Very steady on a limited supply: Egyptian, brown, 30s.; green, 35s. per cwt., c.i.f.

HONEY.—Business has quietened down, but the market is steady and by no means overloaded, as was the case a year ago: Jamaican,

dark, manufacturing, 30s. up to 40s. for pale set. Canadian, new crop, steady at 44s. to 46s., as to quality. Californian, white clover, 47s. 6d. per cwt., duty paid. Small lots of all descriptions at higher prices.

HYDRASTIS.—Quieter demand, spot values steady: U.S.P. spot, 13s. to 13s. 3d.; shipment, about 12s. 9d., c.i.f. Limited quantity of root testing 3.4 alkaloids, 14s. 3d. per lb.

IPECACUANHA.—Tending rather easier on a dull market: Matto Grosso, B.P., spot, 7s.; shipment, 6s. 9d. per lb., c.i.f.

MENTHOL.—The Japanese product has sold slowly and forward business has been negligible: K/S brands, 13s. 1½d.; near afloat, 11s. 7½d., c.i.f. Shippers quote January-March at 11s., c.i.f., with orders at slightly under this figure refused. Chinese, spot, 12s. 4½d. per lb.; shipment, February-March, 10s. 4½d. per lb., c.i.f. French at very competitive prices.

MERCURY.—No further change in quotations, with shipment at 70 dollars per bottle, f.o.b. Continent; spot, £15 4s. per bottle, ex store.

OPIMUM.—Market steady, small inquiry: Turkish, 13 per cent., 1s. 2d.; Iranian, 12 per cent., 1s. 1d.; Bulgarian, original cases of 170 lb., 12½ per cent., 1s. 2d.; Afghanistan, 14 per cent., 1s. 1d., all per unit, landed and duty paid.

ORRIS ROOT.—Dealers are quoting Florentine, good white, from 35s. per cwt., ex store.

PEPPER.—Values are level on the week, business quiet: Lampong, in bond, 2½d.; shipment, January-March, 2½d.; March-May, 2½d., c.i.f. Tellicherry, spot, 4d.; shipment, November-December, 33s., c.i.f. Aleppy, spot, 4d.; shipment, November-December, 34s., c.i.f. White Muntok, in bond, 3½d.; shipment, January-March, 3½d.; March-May, 3½d., c.i.f. London Terminal Market: Black, December, 2½d.; March, 2½d.; May, 2½d.; July, 2½d. White, December, 3½d.; March, 3½d.; May, 3½d.; July, 3½d. per lb.

PIMENTO.—Fully steady, moderate business: spot, 8d. per lb.; shipment, January-February, 68s. per cwt., c.i.f.

RHUBARB.—Fair business in rough round, with all the cheaper lots sold: spot, rough round, up to 2s. 2d., as to seller and quantity. Shensi, 4s. 9d. to 5s. per lb., ex store. A parcel of rough round near afloat will be offered from about 1s. 10½d., landed, for medium quality.

RUBBER.—Rather more business during the past week, and values show a small recovery: standard ribbed smoked sheet, spot, 8½d.; January, 8½d.; February, 8½d.; March, 8½d.; April-June, 8½d.; July-September, 8½d.

SAFFRON.—Dealers' prices for small spot parcels of finest genuine Valencia are firm at 90s. per lb. Inferior grades at cheaper prices.

SEEDS.—ANISE.—Spot, duty paid, Spanish, 55s.; Bulgarian, 42s. 6d.; Russian, 42s. CARAWAY.—Spot, Dutch, 32s. 6d., duty paid, 27s. 9d. quoted f.o.b. Holland. CANARY.—Spot, Mazagan, 16s.; Morocco, 15s.; Turkish, 13s.; Plate, 13s. 6d.; Spanish, 25s. to 37s.; the above prices are duty paid. CORIANDER.—Market remains firm. Morocco on spot is quoted at 17s. 6d., duty paid, and 16s. in bond; for shipment 15s. 9d., c.i.f., is quoted. CUMIN.—Spot, Malta, 47s. 6d., duty free; Morocco, 45s., duty paid, and for shipment 44s., c.i.f. FENNEL.—Spot, Indian, 22s. 6d. FENUGREEK.—Morocco, on spot, offered at 13s., duty paid. MUSTARD.—English, 21s. to 29s. 6d., according to quality.

SENEGAL.—Continues very firm: spot, 2s. 9d. to 2s. 10d.; shipment, South American, 2s. 8d., c.i.f., on which 10 per cent. duty would be payable.

SENNA.—London market continues quiet, with all descriptions quoted unchanged; new crop Tinnevely leaves, on spot, offered as follows: No. 1 at 6½d.; No. 2 at 4d.; No. 3 at 2½d.; No. 4 at 2½d. per lb. Tinnevely pods: best pale greenish, hand-picked, offer at 5d. to 6d. per lb. Darker qualities from 3½d. to 4d. per lb.; manufacturing pods continue scarce at 2½d. to 2½d. per lb. Alexandrian hand-picked pods: medium to good No. 1 offered at 3s. 6d. per lb.; No. 2, 2s. 6d.; No. 3, 2s. per lb. Old crop pods available at 1s. to 1s. 9d. per lb., ex store.

SHELLAC.—Market is steady, limited business: spot, standard TN orange, 39s. to 42s.; fine orange, 52s. 6d. to 80s.; pure button, 47s. 6d. to 50s. per cwt. For delivery, TN, December, 38s. 6d.; March, 40s.; May, 41s. For arrival, TN, January-February, 38s. 6d. per cwt., c.i.f.

TRAGACANTH.—Business has been quiet, with values nominally unchanged: finest selected white ribbon, £65; No. 1, white, £57 10s. to £60; No. 2, white, £50 to £54; No. 3, white, £35 to £45; amber leaf, £32; cleaned amber sorts, £16; brown to amber leaf, £11 10s.; red leaf, £9 to £10; hoggy, £6 to £7 per cwt., ex store.

TURMERIC.—Fully steady at former values. No "polished" spice on spot; rough-coated held for 29s. 6d.; shipment, "polished," 28s. 6d. per cwt., c.i.f.

WAXES.—BEES.—These markets have shown little life this week; all quotations are about unchanged: good quality waxes, in bond, 92s. 6d.; duty paid, 98s. to 100s. per cwt. Benguella, 86s. 6d., c.i.f.; in bond, 90s. Dar-es-Salaam, 97s., c.i.f., and Conakry, 86s. per cwt., c.i.f. CARNAUBA.—Fatty grey, spot, 150s.; afloat, 144s.; shipment, December-January, 140s., c.i.f. Chalky grey, spot, 150s.; shipment, December-January, 137s. 6d., c.i.f. Primeira, spot, good quality, 102s. 6d.; shipment, December-January, 180s.; Mediana, spot, 185s.; shipment, 177s. 6d. per cwt., c.i.f.

Essential and Expressed Oils, etc.

QUIET markets are reported in all directions. New crop bergamot is now quoted. Sicilian lemon continues to weaken for new crop for shipment. Japanese peppermint has been quiet. Wormseed is much easier.

ANISE (STAR).—Business has shown no improvement and spot holders' ideas of values are rather easier; spot, leads, nominal; tins, 3s. 4½d. to 3s. 5d., less 2½ per cent.; drums, 3s. 3d., net, per lb., ex store.

BERGAMOT.—We are advised that the Consortium shipment price for new crop will be at the former figure of 15s. per lb., c.i.f. The crop will be about three weeks late and it is estimated the quantity will be well below average. First shipments will be ready about the end of January.

CAMPOR.—Market very firm with hardly any supplies available here. No shipment offers. No Chinese oil: Japanese, white, dearer from 142s. 6d. per cwt., ex store, in drums.

CASSIA.—Barely steady as quoted; business lacking: spot, in leads, from 3s. 4d. per lb., ex store. Shipment offers from Hong Kong: drums, 3s. 3d. and tins 3s. 5d. per lb., c.i.f., for 80 to 85 per cent. oil.

CASTOR.—Market is quoted unchanged; B.P. quality, 40s. 6d. per cwt., in barrels, ex store, London; Hull, 2s. per cwt. less. Small quantities, up to 2s. 6d. per cwt. dearer. Cases, 4s. per cwt. extra.

CITRONELLA.—Quotations are about level on the week, business slack. Ceylon about unchanged and quiet; Ceylon oil dull and unsteady: Ceylon, spot, drums, from 1s. 7d.; smaller parcels, up to 1s. 11d.; shipment, drums, about 1s. 4½d. per lb., c.i.f. Java, spot, drums, about 1s. 9d.; smaller parcels, up to 2s. 3d.; shipment, drums, around 1s. 2½d. per lb., c.i.f.

CLOVE.—Spot values are steady: Madagascar, spot, drums, 2s. 8d. per lb., if available; smaller parcels, up to 3s. 3d. English distilled, 4s. 10d. to 5s. per lb., ex store.

COCONUT.—English deodorised is quoted unchanged at £24 15s. per ton, in barrels, ex works.

EUCALYPTUS.—Shipment quotations from Australia for the higher grades of oil are dearer: Australian, 70 to 75 per cent., tins, 1s. 2½d. to 1s. 3½d.; drums, 1s. 2d. to 1s. 2½d.; 80 to 85 per cent., drums, 1s. 6d. per lb., ex store, with higher prices for small lots; shipment, 70 to 75 per cent., tins, 1s. 1½d.; drums, 1s. 0½d.; 80 to 85 per cent., 1s. 4½d. per lb., c.i.f.

GINGERGRASS.—A limited quantity of oil is offering here, quoted at 7s. 3d. to 7s. 4½d. per lb., ex store.

GRAPEFRUIT.—Market is dull: Californian, 10s. 3d. to 12s. Florida, 11s. to 12s. 6d. per lb., ex store, as to quantity.

HO (SHU).—Spot quotations are very firm, supplies scarce: spot, "improved" quality, 4d. 9d.; "extra," 5s. per lb., ex store.

JUNIPER BERRY.—Quotations vary on the quality of the product from about 3s. 3d. to 3s. 9d. per lb., for limited quantities.

LAVERDER.—Market continues steady but quiet: spot values vary, with finest quality 38 to 40 per cent. quoted at 13s. 6d. to 13s. 9d. per lb., with other oils at cheaper prices. Lavandin is quoted at 5s. to 5s. 3d. per lb., ex store.

LEMON.—Quotations from the source for Sicilian hand-pressed oil continue to decline with the latest offers from 9s. 9d. to 10s. 1½d. per lb., c.i.f., as to brand and quantity. No interest is being taken at the moment and it seems that offers are not yet within the range of buyers' ideas. It has been evident for some time that the Californian oils have been gaining favour on this market and business with this source is reported to be increasing. Californian distilled in limited supply on spot at 1 dollar 54 cents per lb. Californian cold-pressed, 9s. per lb., landed.

LEMONGRASS.—Practically no interest in the market: spot, 1s. 7½d. to 2s. per lb., as to quantity and packing; shipment, 1s. 4½d. per lb., c.i.f.

LIME.—Market quiet, quotations unsteady: West Indian distilled is nominal at 17s. 6d. per lb.

LINSEED.—Steady but quieter: raw oil, in small quantities, 25s. 9d. per cwt.; boiled oil, 28s. 6d. per cwt., ex works.

MANDARIN.—Steady but less inquiry on hand: new crop oil for shipment is quoted in the region of 14s. 6d. to 15s. 6d. per lb., c.i.f.; spot, 16s. to 17s. 6d. per lb., ex store.

NEROLI.—Spot business is quiet: quoted at 24s. to 27s. per oz., as to source, for small lots.

NUTMEG.—Average small spot business: Dutch and American, from 5s. 4½d. to 5s. 9d. per lb., as to quantity.

OLIVE.—Business on a very fair scale and prices are fully maintained: B.P., 1 per cent., 6s. to 6s. 1½d. per gallon, in drums. Edible quality, ten 1-gallon tins, in cases, 82s. 6d.; twenty ½-gallon tins, in cases, 85s. per case; drums, 6s. 3d. per gallon, ex store.

ORANGE.—Market for French Guinea is nominally unchanged: Spot quotations continue cheap, with little moving: spot, drums, from 2s. 6d.; repacked in tins, 2s. 10d. to 3s. per lb. Californian, small drums, 59 cents; two or more cases, 61 cents per lb., ex store. Florida, cold-pressed, 85 cents per lb., in drums, landed, London.

PALMAROSA.—Limited inquiry, quoted about unchanged: spot, about 8s. per lb. for bulk purchases; shipment is steady at 7s. 3d. per lb., c.i.f. Java oil is available at about 4s. 6d. per lb., ex store.

PATCHOULI.—A competitive market, business small at the moment: Singapore, spot, 10s. 6d. to 10s. 9d.; Seychelles, spot, about 9s.; Java oil, about 9s. 4½d. per lb., ex store, for original packages.

PEPPERMINT.—The Japanese product has met with a slow spot sale. There are still no declarations for October-December shipments and some direct importers advise us their goods have not yet been despatched. Spot, 4s. 8d. to 4s. 9d. Market sellers of October-December at 4s. 5d., c.i.f. Japanese shippers quote January-March, 4s. 4½d., c.i.f., with re-sellers of this position at 4s. 4d. and probable buyers from 4s. 2d., c.i.f. American natural oil continues steady at 2 dollars 30 cents to 2 dollars 35 cents per lb., c.i.f.

PETITGRAIN.—Isolated cheap spot offers, business quieter: spot, in cases, 3s. 6d. to 3s. 7½d. per lb.; shipment, about 3s. to 3s. 1½d. per lb., c.i.f., as to quantity. French, to come forward, quoted from source at 950 francs per kilo.

RAISIN SEED.—Dealers' prices are steady: Californian, spot, 2s. 3d. to 2s. 6d. per lb., ex store, as to quantity.

ROSEMARY.—Inquiry of small account: genuine Spanish quoted at 3s. to 3s. 6d. per lb., as to quality and quantity. Tunis, 2s. 6d. to 2s. 8d. per lb., landed, as to quantity.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, steady at 20s. 6d. per lb. East India, produced outside the province of Mysore, 18s. 6d. to 19s. per lb., c.i.f., in bulk quantities. English-made West Indian, 7s. 3d. per lb. Australian, steady at 15s. 3d. per lb., for 7-lb. tins; one case at 14s. 9d. and five cases at 14s. 6d. per lb.

SASSAFRAS.—Dealers' quotations continue to vary as to quality of the oil: genuine natural oil of fine quality offered at 4s. to 4s. 3d. per lb., as to quantity.

SPEARMINT.—Business is poor: U.S.P. oil, spot, about 9s. 6d.; shipment, 8s. 6d. per lb., c.i.f.

SPIKE.—Inquiry remains slow: genuine fine quality Spanish oil continues steady on spot at about 5s. 3d. per lb., ex store.

TURPENTINE (AMERICAN).—London stocks on November 12 totalled 29,727 barrels; spot, London, 33s.; Hull, 34s.; Liverpool, 35s. per cwt. Market is firm at the advance.

VETIVERT.—Rather unsteady on quotation: Bourbon about 15s. to 16s. 6d. per lb., and slightly less for drums, ex store.

WORMSEED.—Business of small account: values much easier: U.S.P. oil, spot, 10s.; shipment, 9s. 8d. per lb., c.i.f.

Sudan Gum Acacia Exports

BOXALL & Co. report that shipments during October, 1938, totalled 2,094 tons, against 1,184 tons in October, 1937. Shipments during January-October, 1938, totalled 21,797 tons, compared with 18,542 tons in the corresponding period of 1937. The following were the chief destinations:—

Destination	1937			1938		
	Jan.-Sept.	Oct.	Total	Jan.-Sept.	Oct.	Total
Great Britain...	5,134	80	5,214	5,068	509	5,577
U.S.A....	3,505	229	3,734	3,066	497	3,563
France ...	1,695	142	1,837	2,521	60	2,581
Germany ...	2,082	185	2,267	1,937	265	2,202
Italy ...	571	131	702	575	28	603
Belgium ...	647	131	778	1,655	142	1,797
Japan ...	942	48	990	415	46	461
Holland ...	684	23	707	681	124	805
Sweden ...	320	24	344	764	62	826
Norway ...	40	5	45	65	26	91
Australia ...	387	12	399	779	76	855
New Zealand ...	62	6	68	47	2	49
China ...	162	4	166	155	33	188
Canada ...	172	35	207	199	35	234
British India ...	71	—	71	143	23	166
Denmark ...	141	9	150	223	17	240
Finland ...	169	15	184	220	30	250
Poland ...	67	27	94	129	13	142
Rumania ...	59	3	62	105	7	112
Greece ...	57	3	60	91	14	105
Egypt ...	64	22	86	151	3	154
South Africa ...	27	—	27	58	—	58
Dutch Indies...	32	12	44	44	6	50
Argentina ...	25	—	25	173	34	207
Brazil ...	96	33	129	163	9	172
Mexico ...	9	5	14	57	1	58

The export figures are made up of the following quantities:—

	Hashab	Bleached	Talha	Total
October, 1937 ...	tons 978	12	194	1,184
October, 1938 ...	tons 1,890	30	174	2,094
January-October, 1937 ...	tons 16,087	150	2,305	18,542
January-October, 1938 ...	tons 20,001	156	1,640	21,797

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Paying Both Ways

SIR,—Coinciding with the arrival of my rates demand note, one of my customers reports to me that she will not be requiring any more baby food, as (listen to her own words) "I can get as much as I can carry away for nothing from the Guildhall." The Guildhall of the City of London, mark you, from whence comes this same demand note for rates totalling more than many chemists pay to an assistant in wages. Rather ironical, but then how long are we going to tolerate this kind of treatment? If only our "heads" would give more thought to the commercial side of pharmacy and stop looking for "bugs" they would soon find the germ that is eating away the very heart of their own means of existence.

Yours faithfully,

London, E.C.2.

R. THOMSON.

Profits on P.A.T.A. Articles

SIR,—It is interesting to note that, according to Mr. Marshall's letter in the *C. & D.*, December 17, p. 678, the policy of the retail section of the P.A.T.A. is to press for 30 per cent. profit as a minimum on unstamped medicinal proprietaries. If one looks through the P.A.T.A. year book it will be seen at once that their efforts have not been very successful, as 25 per cent. seems to be the maximum, and not even that in some cases. I should like to know, if the retail section are so keen, why was one of the latest additions to the P.A.T.A. list allowed to come on with less than 20 per cent. profit to the retailer? . . . There is another question I should like to ask, and that is: Are the manufacturers of P.A.T.A. goods allowed by the P.A.T.A. rules to cut the price of the articles they manufacture? I have good reason to believe that at least one P.A.T.A. manufacturer allows the combine stores 50 per cent. profit on selling price against our best price of 33½ per cent. The price charged to the store, by the way, is considerably lower than what the wholesaler has to pay. This is from my point of view price-cutting on the part of the manufacturer and should be stopped just the same as in the case of a retailer who cuts the price to the public. Is this aspect of cutting allowed by the P.A.T.A., and what action do the retail section propose to take to deal with it?

Yours faithfully,

Sheffield.

T. BERRY.

Hours and Wages

SIR,—It is interesting to compare the different conditions of hours of work and rates of payment as set out in New Zealand by the Wages Board (*C. & D.*, December 10, p. 640) with those to which chemists in this country are accustomed. Weekly hours are stated to be forty-four, and this is eight less than the maximum recommended for all shop assistants in Northern Ireland (*C. & D.*, December 17, p. 659), and this again is slightly less than the usual hours prevailing in England. A common time of opening is from 9 a.m. to 8 p.m., 9 p.m. on Saturday and 1 p.m. on the early closing day, and if one hour is allowed for dinner and half an hour for tea the total comes to fifty-two and a half hours a week. This, it is true, is considerably less than in the "good old days." I can remember the time when the weekly average was between seventy and eighty hours without any half-holiday. With regard to the payment for overtime after the stated number of hours has been worked, there are several points to be noted, especially in pharmacies where there is much panel work. At closing time there are always several persons waiting for medicine involving some time after 8 o'clock, and note would have to be taken of all these odd minutes to ensure correct payment. Then if overtime wages are to be paid for this work, why should not additional dispensing fees be allowed to cover them? An extra fee is paid for an urgent script dispensed after hours, but there is no allowance for those which are brought in on the stroke of the clock, and which, if there is an ointment or powders to be made extemporaneously, may keep one for twenty minutes or half an hour overtime. In view of these conditions, the position of our *confrères* in New Zealand under the new award is a matter for envy.—Yours faithfully,

MANAGER (17/12).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

F. W. B. (9/12).—PYORRHEA CURE.—The details you mention are too vague for us to be able to give a definite answer, and in the circumstances we suggest you consult *THE CHEMIST AND DRUGGIST DIARY*, 1938, (1) as regards medicine-stamp duty (pp. 289-300), (2) as to poisons restrictions (pp. 300-315).

W. E. D. (12/12).—POULTRY SPICE.—The following recipe, which is taken from *Pharmaceutical Formulas*, Vol. II, and is representative of poultry spices:—

Powdered capsicum	6 dr.
Powdered ginger	1 oz.
Powdered pimento	1 oz.
Powdered anise	1 oz.
Ferrous sulphate	1 oz.
Powdered liquorice	6 dr.

P. E. K. (12/12).—EXTERMINATION OF BEETLES.—It is difficult for us to suggest a satisfactory method of exterminating these insects in view of the methods you have tried unsuccessfully, but we believe a certain amount of success has been attained by the use of rat varnish painted over pieces of wood, which are laid in the cupboards infested with the insects.

R. S. (16/12).—STEAMY WINDOWS.—The primary cause of steamy windows is condensation of water vapour brought about by temperature variations. Much can be done towards preventing it by adequate ventilation, with the object of keeping inside and outside temperatures at the same level. In installing windows, it is advisable to include six ventilators in each self-contained section—two in the floor or through the base of the shop front, one at each end of the window flooring inside, and two in the window back, at the top. Various mixtures of soap and glycerin are in use for counteracting steaming, as a thin film of soap on the glass prevents, or at least considerably retards, the deposition of moisture. The following is typical:—

Yellow soap	4 oz.
Glycerin	2 oz.
Hot water	12 oz.

Shred the soap and mix with the hot water until a cream results, then add the glycerin. An alternative is lin. saponis meth., with the addition of a small proportion of glycerin and an essential oil such as citronella.

J. N. (12/12).—WATER SOFTENERS.—The principal materials used are the various zeolites, which are complex insoluble mineral compounds, consisting of double silicates of aluminium or iron, or both, with an interchangeable sodium base. Both natural and artificial zeolites are employed. An informative article on the subject of water softening appeared in *THE CHEMIST AND DRUGGIST*, January 29, 1938, p. 131.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," December 22, 1888

Carbolic Acid and the Poisons Schedule

There is no shadow of reason for keeping up a schedule of poisons at all and excluding carbolic acid from it. This poison has rapidly attained to the second place in respect of its deadly qualities, the first group comprising opium, laudanum, soothing syrups, etc. What has contributed most to the extraordinary favour which seems to have been bestowed upon this frightful agent by the unhappy, the poor and the despairing, can only have been the excessive ease with which it can be obtained. But, of course, there is some reason for saying that people intent on suicide will commit it by some means or other, and the legal restrictions on the sale of poisons are rather intended to prevent murders and accidents than suicides. From this point of view the argument for extending the same restrictions to carbolic acid as are already applied to the more merciful poisons is equally strong. Again and again deaths occur because carbolic acid loosely sold and carelessly kept has been taken in mistake for medicine and drink. And for no small proportion of these agonising deaths we are compelled to hold the Government authorities responsible, in consequence of their strange persistence in refusing to the public the protection which it is so obvious is required.

JUBILEE YEAR

1888
50 YEARS AGO...

PHENACETIN

**WAS DISCOVERED IN THE
BAYER LABORATORIES**

TODAY AFTER HALF A CENTURY OF
RESEARCH AND EXPERIENCE 'BAYER' FINE
CHEMICALS ARE KNOWN THROUGHOUT
THE WORLD FOR THEIR PURITY, EFFICACY,
RELIABILITY AND CONSISTENCY IN QUALITY

THE 'BAYER' RANGE OF FINE
CHEMICALS INCLUDES
AMIDOPYRIN (THE ORIGINAL)
BARBITONE

BENZONAPHTHOL

HEXAMINE

METHYL SALICYLATE

PHENAZONE

SULPHONAL

(THE ORIGINAL)

Fifty Years of

1888



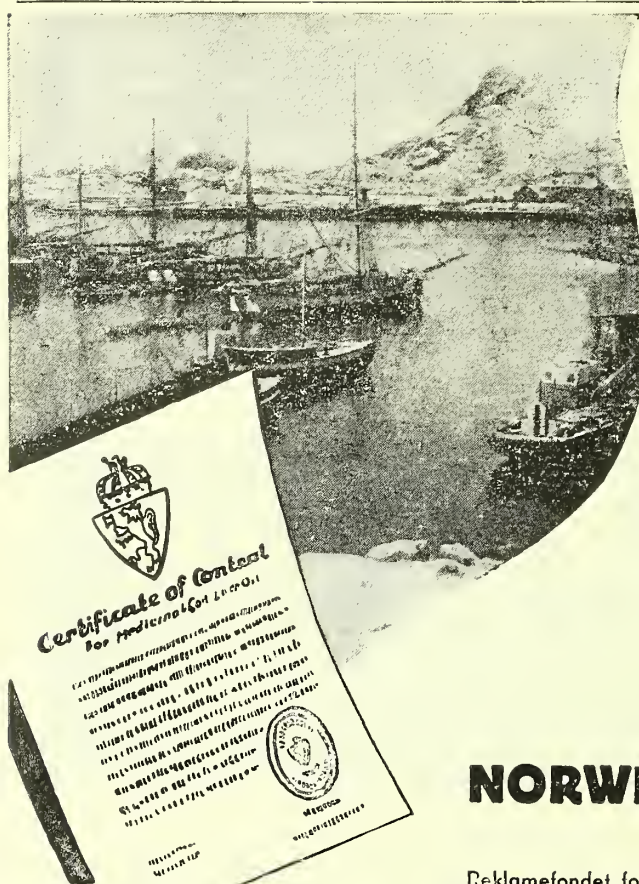
1938

PHARMACEUTICAL
PRODUCTS

**LARGE STOCKS HELD
IN LONDON**

BAYER PRODUCTS LTD., Africa House, Kingsway, London, W.C.2.

NORTHERN OFFICE (Information only), Blackfriars House, Parsonage, Manchester.



Cold, Pure and Health-giving

is the air where Norwegian cod fisheries are carried on. The cod liver oil is extracted from the fresh livers only a few hours after the fish have been caught. This accounts for the outstanding quality of Norwegian Medicinal Cod Liver Oil, which is practically free from any taste or smell and has a pure, limpid appearance. Norwegian Medicinal Cod Liver Oil is a preventative against rickets, develops strong bones and teeth, and fortifies the mucous membrane of the respiratory organs.

The genuine
led by the Nor-
ment and
by a Certifi-



oil is control-
wegian Govern-
accompanied
cate of Control.

NORWEGIAN COD LIVER OIL

Nature's own remedy.

For printed matter, apply to:
Reklamefondet for Norsk Medicintran, P. O. Box 226, Bergen, Norway.

Paraffinum Liquidum B P.

ALL
GRADES
SAMPLES & PRICES

On application
to

Sterns Ltd.
16, Finsbury Sq. London, E.C2

ALSO
TECHNICAL
QUALITIES

WHOLESALE ONLY

Telephone: National 7644 (7 lines)
Telegrams: Centumvir. Phone, London

Cream of Magnesia



Ask us to send you
this 12 oz. sample
bottle **FREE**

Cream of Magnesia
is prepared by a
patented process
that ensures an
absolutely pure
product. Viscosity
can be varied to
suit customers'
requirements.

THE WASHINGTON CHEMICAL COMPANY

BRANCH OF TURNER AND NEWALL LIMITED

Washington Station, County Durham

*Phone: Low Fell 76035

*Grams: Chemical, "Washington Station"

BONUS OFFER

Showing 133 $\frac{1}{3}$ % on cost

AVAILABLE UNTIL JANUARY 31st, 1939

PHIL-SANO BRAND ASPIRIN TABLETS

NATIONALLY ADVERTISED

BOTTLES	RETAIL	3 DOZ. PER DOZ.	6 DOZ. PER DOZ.	12 DOZ. PER DOZ.
25's	6d.	4/-	3/6	3/-
50's	10½d.	6/6	5/9	5/-
100's	1/3	10/6	9/-	7/-

3 DOZEN OF ASSORTED SIZES SUPPLIED AT GROSS PRICES

Attractively packed in Cartons and Display Outer



SPECIAL BONUS

Orders for 6 dozen 25's or equivalent ... 1 dozen 25's FREE

Orders for 3 dozen 25's or equivalent ... $\frac{1}{2}$ dozen 25's FREE

**ORDERS FOR SPECIAL BONUS (WHICH IS GIVEN ON
CONDITION OF A FORTNIGHT'S COUNTER DISPLAY)
CAN BE PLACED WITH YOUR USUAL WHOLESALE HOUSE**

*Stocked by all leading Wholesalers. Sold through
CHEMISTS ONLY*

ENQUIRIES INVITED FOR 'OWN NAME' PACKS

PHIL-SANO LIMITED

106 GREAT RUSSELL STREET, LONDON, W.C.1

Telephone : Museum 8533

Codes : A.B.C. 5th Edition, Marconi, International

EPHEDRIN

and SALTS

(NATURAL - ex Ma Huang)

Specify **'CARNEBROS'** Brand

CARNEGIE BROS. LTD., 227-229 ESSEX RD., LONDON, N.1

TELEPHONE: CLISSOLD 4761 (4 LINES)

TELEGRAPHIC ADDRESS: 'CARNEBROS,' LONDON

CODES: A.B.C., 5th and 6th EDITION, Etc.



NICOTINE INSECTICIDES

(PART 2 POISON)

Nicotine 95-98% ; Nicotine Sulphate 40%.
Nicotine Fumigants (Shreds, Compound, Rolls).
"Lyce-Deth" (A Super Poultry Perch Paint).
Nicotine Washes (Nico Soap, etc.).
Nicotine Dusts, 2%, 3% or 4% grades.

Apply for particulars to:

J. D. CAMPBELL NICOTINE MANUFACTURER
17 LUND STREET, MANCHESTER 16

CHEMIST SIGNS

BUY DIRECT FROM THE ACTUAL MAKERS

NEON SIGNS

PRICES ON APPLICATION

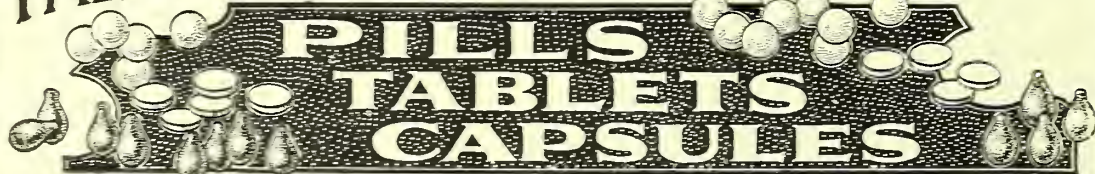
Send for illustrated catalogue

SCINTILLATING SIGN SERVICE

3-5 Colebrook Pl., ISLINGTON, N.1

Telephone: Canonbury 2010

THE SPECIALISTS IN



HIGHEST QUALITY AT KEENEST PRICES

HOWARD LLOYD & CO. LTD.
MANUFACTURING CHEMISTS
LEICESTER.

ALKALOIDS

FINE CHEMICALS & OPIUM DERIVATIVES

ALOID • ATROPINE • BISMUTH SALTS • CAFFEINE •
CANTHARIDIN • CAPSICIN • CHLOROFORM • CHRYSAROBIN •
CODEINE • DIAMORPHINE • ERGOTIN • ESERINE •
ETHYL-MORPHINE • GINGERINE • JALAP RESIN •
LEPTANDRIN • MORPHINE • OPIUM • PODOPHYLLIN RESIN •
SALICIN • SANTONIN • SCAMMONY RESIN • STRYCHNINE
AND OTHER PHARMACEUTICAL CHEMICALS AND PREPARATIONS.

CHLORAL HYDRATE
EPHEDRINE

Goods covered by Dangerous Drugs Acts offered subject to all regulations

T. & H. SMITH LTD.

25 CHRISTOPHER STREET, LONDON, E.C.2
Blandfield Chemical Works, Edinburgh 11 - - - 32 Virginia St., Glasgow, C.1

EPSOM SALTS

*Commercial and B.P. Qualities
also Powdered*

Glauber's Salt

*Commercial and B.P. Qualities
and Desiccated*

Zinc Sulphate

Commercial and B.P. Qualities

Zinc Chloride

Fused, Granulated and Liquid

**WILLIAM
BLYTHE
& CO., LTD.**

Holland Bank Chemical Works

**CHURCH
LANCASHIRE**

**Hyposulphite
of Soda** *Pea Crystals*

Lead Arsenate
Paste and Powder

**Precipitated
Sulphur
WEED KILLER**

*A list of our general Technical
Chemicals sent on application*

ROURA & FORGAS

14 SEETHING LANE, GT. TOWER ST.
LONDON, E.C.3

Phone: ROYAL 3080

QUICKSILVER

*Send your Enquiries to the
SOLE IMPORTING BUYERS for the WORLD
of the production of Quicksilver
of MINAS de ALMADEN, SPAIN*

POWDER BOTTLES



This series of bottles is now available in a large range of sizes in white flint glass from $\frac{1}{2}$ oz. to 40 oz. inclusive. It will be seen from the illustration that the Screw Neck bottles are complete with a neat Black Moulded Cap. The bottles are suitable for the packing of powders, tablets and similar products, and are also available in Actinic Green in $\frac{1}{2}$, 1, $1\frac{1}{2}$, 2, 3, and 6 oz. sizes.

Write for samples and price list

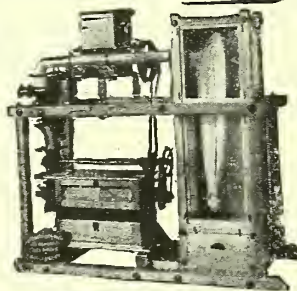
BEATSON, CLARK & CO., LTD.,
Glass Bottle Manufacturers
ROTHERHAM Established 1751 YORKSHIRE

BC. 17

A FACTORY IN A FEW SQ. FEET

This Gardner machine will grind, sift to the finest mesh and separate the smallest air-floated particles. With it you can produce your own beauty powders, equal in every way to those of the big makers. Yet the complete plant occupies only a few square feet and is driven by a single low-powered electric motor.

All you have to do is to place the raw material in the feeder and collect the finished product.



**THE
GARDNER**
combined
**FEEDING, GRINDING
SIFTING &
DUST COLLECTING
PLANT**

Ask us for fuller information

Wm. GARDNER & SONS (GLOUCESTER) Ltd.
BRISTOL ROAD, GLOUCESTER
Telephone : 2288 Telegrams : "Gardner, Gloucester"
LONDON : 19 Gray's Inn Chambers, 20 High Holborn, W.C.1
Telephone : Chancery 7347

"WEBSTER'S" STAINLESS STEELWARE

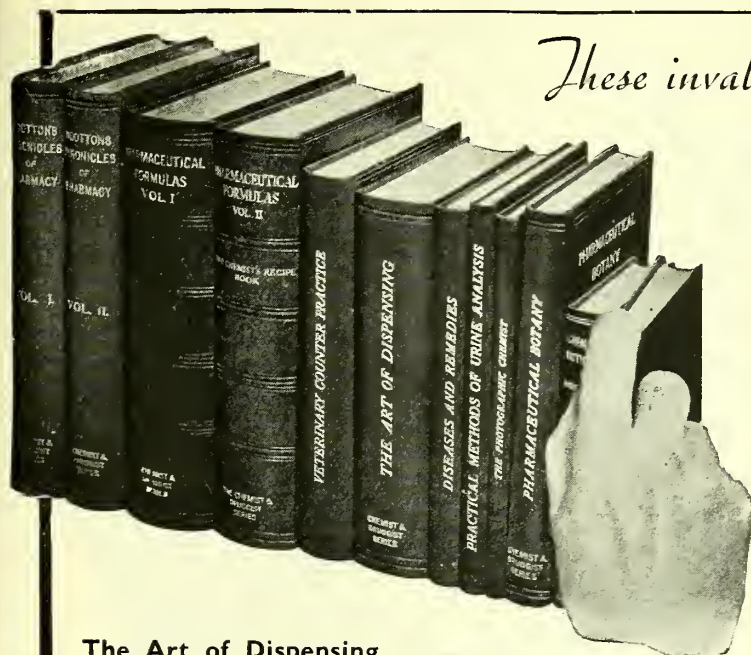
Specialists in modern equipment for manufacturers i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Percolators, Boggles, etc., etc.

Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals, as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.



ISAAC WEBSTER & SONS, LTD.
ABBEY WORKS, KIRKSTALL, LEEDS, 5
Telephone : 51580 Headingley. Telegrams : Isaac Webster, Kirkstall.



*These invaluable books should
be ready to your hand.*

"THE CHEMISTS' COMPACT LIBRARY"

These books provide a ready source of up-to-date and accurate information on their particular subjects . . .

Each book written by an expert specially for YOU!



The Art of Dispensing

Accepted by authorities as the standard work on the subject. New edition (1937) completely revised, re-written and thoroughly up-to-date.
Price 10s. 6d. (11s. Post free)

Veterinary Counter Practice

New and thoroughly revised edition just published. The most useful book ever published on this subject.

Price 10s. (10s. 6d. Post free)

Dictionary of Medical Terms

A completely new edition will be available early in 1939. Comprehensive, thoroughly revised and greatly enlarged, this book gives concise definitions of medical terms. A book you should have ready to hand.

Price 8s. 6d. (8s. 10d. Post free)

Diseases and Remedies

Newly revised and brought up to date (1936). Contains information of practical value and a host of reliable formulas.

Price 7s. 6d. (7s. 10d. Post free)

A Handbook to Pharmacy

By William Kirkby, M.Sc., Pharmaceutical Chemist. A book you must have. Invaluable for rapid reference purposes in dispensary or laboratory.

Price 5s. (5s. 4d. Post free)

Pharmaceutical Botany

A useful gift for apprentices and assistants who have not passed the qualifying examinations.

Price 5s. (5s. 4d. Post free)

Pharmaceutical Formulas (Vol. I)

The most complete pharmaceutical formulary in the English language. 1,146 pages.

Price 15s. (15s. 6d. Post free)

Pharmaceutical Formulas (Vol. II)

Published 1934. Supplementary to Vol. I and known as the Chemists' Recipe Book. Replete with an amazing variety of formulas. Over 1,000 pages.

Price 15s. (15s. 6d. Post free)

Practical Methods of Urine Analysis

Written by an expert pharmacist and revised by a medical practitioner experienced in clinical analysis. 97 pages.

Price 4s. (4s. 3d. Post free)

Provincial Hospital Pharmacopœias

Gives formulas for medical prescriptions used in 22 Hospitals outside the London area. 296 pages.

Price 3s. (3s. 2d. Post free)

The Photographic Chemist

A concise guide to Chemists commencing and carrying on a photographic department.

Price 3s. 6d. (3s. 8d. Post free)

Wootton's Chronicles of Pharmacy

A fascinating study of the evolution of Pharmacy. Two volumes. Maroon cloth. 770 pages.

Price 10s. 6d. (11s. Post free)

The C. & D. Poisons Guide (2nd Edition)

Authoritative, accurate and concise. Classifies over 2,500 poisons.

Price 4s. 6d. (4s. 9d. Post free)

The C. & D. Price List Formulary

A Choice collection of good formulas. All users of the C. & D. Price List require a copy of this formulary. Price 2s. 6d. (Post free)

The C. & D. Stocktaking Pad

Halves your stocktaking worries.

Price 2s. 6d. (Post free)

Shops Act Cards

Price 1s. each, 2 for 1s. 9d. (Post free)

Order from The PUBLISHER, THE CHEMIST and DRUGGIST

28 ESSEX STREET, STRAND, LONDON, W.C.2

Phone : CENTRAL 6565

CL 1

*Here's
profitable
GOODWILL
to all...*



**'MORFI' GOODWILL
IS A SURETY OF A
PROSPEROUS 1939
FOR ALL STOCKISTS**

THE PRESTIGE AND GOODWILL BUILT UPON 'MORFI'S' REPUTATION FOR CONSISTENT RELIABILITY HAS MADE THIS 'CHEMISTS ONLY' LINE THE LEADING PRODUCT OF ITS KIND. 'MORFI' TRANSPARENT PRODUCTS CAN BE SOLD AND PURCHASED WITH MUTUAL CONFIDENCE, AND SHOW THE RETAILER A SUBSTANTIAL MARGIN OF PROFIT... BECOME A 'MORFI' STOCKIST AND SHARE IN THESE BIG SALES!

MORFI



Sole Distribution :

HERBERT FROMM, 29-31 OXFORD ST., LONDON, W.1

Telephone : GERRARD 6258-9

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

DECEMBER 24,
• 1938 •

GREETINGS

*To our Readers throughout the
World we extend every good wish for Health,
Happiness and Prosperity during
the coming Year*

ORRIDGE & CO. 56 LUDGATE HILL, E.C.4

ESTABLISHED 1846

Telephone Nos.: CITY 2283 & 7477

May be CONSULTED at their Offices on MATTERS of SALE, PURCHASE & VALUATION

We make no charge to purchasers, and invite intending buyers to communicate with us, stating their requirements

- 1.—**LONDON (CITY BUSINESS).**—Old-established profitable Business offering scope for increase; turnover about £1,700 per annum; assistant employed; inclusive rental under £200 per annum; price about £1,000.
- 2.—**ISLINGTON (NEAR).**—Business and Branch situate in close proximity; total turnover between £2,300 and £2,400 per annum; gross profit exceeds £1,100; excellent Panel; net profit £400; inclusive purchase price for both businesses £1,000; the concerns can be bought together or separately.
- 3.—**STOCKWELL.**—Main road Business for immediate sale by trustee; turnover exceeds £1,200; gross profit over £500; handsomely fitted pharmacy, very well stocked; new lease will probably be granted to a responsible tenant; no reasonable offer refused.
- 4.—**PICCADILLY (NEAR).**—Good-class Business offering scope for increase; old established; returns average about £40 per week; stock worth £400; valuable lease; inclusive purchase price £900, or valuation terms entertained.
- 5.—**HAMMERSMITH.**—Middle- and Working-class Cash Retail Business with sub-Post Office attached; net profit over £300 per annum; long lease; inclusive purchase price required £650 or near.
- 6.—**HAMPSTEAD.**—High-class Business; net profit last year £236 under lady management; heavy stock; low rental; inclusive purchase price about £350.
- 7.—**KILBURN.**—Middle- and Working-class Cash Retail Business offering scope for increase; returns last year under management over £1,100; rent £100 per annum, sublets will amount to £130 per annum; price required for lease, goodwill and fixtures, £200, plus stock at valuation.
- 8.—**BEXLEY HEATH.**—General Retail Business; scope for Panel; takings over £1,400; gross profit £474; modern living accommodation; inclusive purchase price £675.
- 9.—**HIGH WYCOMBE.**—Family Retail Business; takings last year £1,162; net profit nearly £300; stock and fixtures £460; rent only £75 per annum; advantageous sublets; inclusive purchase price approximately £700 or valuation terms entertained.
- 10.—**STROUD GREEN.**—General Retail Business with excellent Panel; established 1870; turnover last year £1,619; net profit approaches £400 per annum; certified figures; heavy stock; excellent living accommodation; rent only £70 per annum; vendor buying another business; would accept valuation terms; total price about £750.
- 11.—**TOOTING.**—Excellent opportunity for young man; old-established business offering considerable scope; living accommodation; very low purchase price; full details on application.
- 12.—**LONDON, W.9.**—Main road Cash Retail Business with excellent Panel connexion; turnover over £2,100 per annum; gross profit approaches 40 per cent.; comfortable living accommodation; inclusive purchase price asked £1,300, or near offer.
- 13.—**ANERLEY (NEAR) (RETIREMENT VACANCY).**—Turnover £1,100; gross profit £375; excellent house; price £600 all-at; scope for increase; middle-class business.
- 14.—**BARNES.**—Cash Retail Business in main-road position; turnover this year will be about £1,100; net profit £250; modern double-fronted lock-up shop; rent £85 per annum; sublet 37s. per week; long lease; terms £100 plus valuation of stock and fittings, about £600 in all.
- 15.—**LEE (LONDON, S.E.).**—General Retail Business with Kodak and Rexall agencies; returns £1,450; net profit over £300; conducted under management; stock and fixtures estimated to be worth £600; price £650 all-at.
- 16.—**CRICKLEWOOD.**—Main-road Good-class Cash Retail Business; valuable Agencies; turnover about £40 per week under management; rent of shop about £100 per annum; good, clean, saleable stock; attractive fixtures; vendor would probably accept about £100 for the goodwill plus the stock and fixtures at valuation, in all about £1,000; a small sum down will be accepted and the remainder over a period.
- 17.—**UPMINSTER.**—Chemist and Optician Business taking £40 per week; new lease; reasonable rent; stock £800; inclusive purchase price £1,250; vendor leaving Retail.
- 18.—**RUISLIP.**—Good Middle-class General Retail Business for sale owing to family reasons; turnover £2,000 per annum; scope to do £3,000; beautifully-fitted Pharmacy, well stocked; inclusive purchase price required £1,400; valuation terms entertained.
- 19.—**HASTINGS.**—General Retail Business; increasing turnover; net profit exceeds £400 per annum; nice living accommodation; heavy stock; minimum purchase price £1,000; increasing turnover.
- 20.—**WIGAN (RETIREMENT VACANCY).**—General Retail Business; takings for year recently completed £1,263; gross profit over 40 per cent.; rent £56 per annum; new lease; inclusive purchase price required £620.
- 21.—**LIVERPOOL.**—Family Retail Business; takings nearly £2,000 for the last completed financial year; gross profit £810; stock and fixtures worth £950; good living accommodation; inclusive purchase price asked £1,300; low rental.
- 22.—**CLEETHORPES.**—Good-class Retail Business; net profit about £5 per week and living accommodation; rent only £60 per annum; inclusive purchase price £400.
- 23.—**SOUTH WALES.**—Old-established Business for sale by widow; in present hands 19 years; takings last year £1,300 under management; living accommodation; rent £40; inclusive purchase price required £350.
- 24.—**HULL.**—General Retail Business returning over £1,200 per annum under management; net profit about £400 to owner-manager; six roomed house over; low inclusive rental; total purchase price £650, a substantial portion of which can remain.
- 25.—**LONDON.**—Specialised Wholesale Business for disposal; old established; net profit £600 per annum; scope; price to include freehold property approximately £2,200; retirement vacancy; full particulars upon application with banker's reference.

Chemists' Transfers, Valuations for Sale, Stocktaking & Probate, Sales by Auction

Special Terms for Income Tax Valuations and Preparation of Accounts by Qualified Accountants

ERNEST J. GEORGE & CO.

Bank Chambers, 329 High Holborn, London,
Telephone Nos: Holborn 7406 & 7407 (2 lines) W.C.1
County Bldgs., Bridge St., Walsall Telephone:
Walsall 3774

Lancashire and District Representative: Mr. E. BROWN, 21 Davenport Rd., Hazel Grove, Stockport. Telephone: Great Moor 2405.

(C1) ESSEX.—Well-established cash business of the lower, middle-class type; turnover nearly £4,000 per annum, and the net profit to an owner-manager should be not less than £700; reasonable rental, which includes living accommodation, or the freehold could be purchased at a moderate figure, if desired; the premises are at present held on lease with about 17 years to run; price £2,300, including stock and fixtures, estimated at £1,600; near offer considered; trial will be welcomed.

(C2) ISLINGTON.—Exceptionally good profit-earning business occupying main-road position; rent entirely covered by sublet income, and the net profit to an owner-proprietor should approximate £450-£500 per annum; turnover steadily increasing; price all-at £1,150, or reasonable offer.

(C3) STREATHAM (NEAR).—Branch business, with no immediate opposition, situated in populous good-class area; turnover for 1937-38, £1,650; rent £100; excellent scope with personal attention; stock and fixtures estimated at £825; price £950 all-at; valuation terms if preferred.

(C4) SUSSEX.—Well-established, country business with no opposition; turnover for last financial year, £1,200; lock-up shop; rent and rates £32 10s. per annum only; stock and fixtures estimated at £600, and £300 is asked for goodwill, making a total of £900; well recommended to a chemist desirous of purchasing a business of the country village type.

(C5) SOUTH WALES.—Old-established business with full wine licence; turnover approximately £1,200 per annum; net profit estimated at £400; rent £75; small deposit down and balance over a period will be accepted; low purchase price for quick sale.

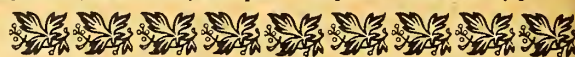
(C6) SOUTH STAFFS.—Village Pharmacy; turnover shows steady increase since 1931; 1937, £1,075 (about £200 N.H.I.); very profitable business; lock-up shop; rent and rates £30; stock and fixtures at valuation (about £280); goodwill £200; ill-health compels urgent sale.

(C7) WILTSHIRE (RETIREMENT VACANCY).—Village business with good living accommodation; present returns small, but capable of substantial increase; very low overheads; price all-at £450, being estimated value of stock and fixtures; part might remain, and any reasonable offer or suggestion will be entertained.

(C8) BRIXTON (NEAR).—Old-established business occupying main road position; turnover for 1937/38, £1,310; net profit £418; rent £52; sublet £78; price all-at £450; owner disposing at a big sacrifice on account of private circumstances, which necessitate an immediate sale.

(C9) PADDINGTON (NEAR).—Exceptionally good profit-earning business situated in working-class district; established nearly 50 years; large N.H.I.; net profit for 1937/38, £389; no near opposition; price all-at £640, plus leasehold property, which the owner is also desirous of selling.

STOCKTAKING, Valuations for transfer, probate, income tax, etc., promptly executed at economical rates.



Messrs. Ernest J. George & Co. extend to all their Chemist Friends hearty greetings for Christmas, and every good wish for Health, Happiness and Prosperity during the coming Year.



THE ASSOCIATION OF MANUFACTURING CHEMISTS, LIMITED

(Business Agency, Transfer & Valuation Department)
KIMBERLEY HOUSE, and at EXCHANGE CHAMBERS,
Holborn Viaduct, LONDON, E.C.1 2 Bixteth St., LIVERPOOL.
PARKIN S. BOOTH, Valuer. Tels.: CITY 3691 (4 lines).
VALUATIONS. SALES OF BUSINESSES. STOCKTAKINGS.
Enquiries Invited.

PREMISES TO LET

6s. for 36 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

ARNOS GROVE TUBE STATION, N.11.—New parade opposite this station, exceptional opportunity for Chemist, shop to be let, 7, 14, 21 years' lease, £120 per annum exclusive; with maisonette above £180 exclusive; shop front fitted. Apply Hugh Davies, 46 Chase Side, Southgate, N.14. Telephone: Palmers Green 5544.

CHATHAM.—To let, up-to-date Shop, with excellent living accommodation, main road, busy thoroughfare; suit Chemist. Basil Seymour, Ltd., Estate Agents, 5 Watling Street, Chatham, Kent.

LLANFAIRPWLL, Anglesey, North Wales.—Modern, double-fronted Shop and House to Let, situated main London-Holyhead road; recently built; suitable for Chemist; no opposition; several villages around unsupplied; house, 2 reception, 4 bedrooms, bathroom, kitchen, garage; rent moderate. Apply Prichard, Menai House, Llanfairpwll, Anglesey, Wales.

VICTORIA

MULTIPLE POSITION.—First-class Premises to be Let where excellent Medical connexions introduced. Exceptional opportunity; modern Shop with maisonette over. Communications from substantial would-be tenants invited.

Managing Agents: LANE, SAVILLE & CO.,
10 CARLOS PLACE, W.1.

THE ART OF DISPENSING

(NEW EDITION. 552 PAGES)

Re-written, completely revised, freshly illustrated, enlarged and thoroughly up-to-date in every detail.

This book—the recognised authority on the subject—is an essential part of the equipment of every dispensary. It simplifies the many problems which so frequently arise during the day's work at the dispensing counter. Compiled by professional experts for the use of the Craft—this is a book which every Pharmacist must possess.



PRICE 10/6 11/- Post Free

You can order direct from your usual Wholesaler or direct from the Publisher

THE
CHEMIST AND DRUGGIST

28 ESSEX STREET, STRAND, LONDON, W.C. 2

APARTMENTS

THE HAMPDEN RESIDENTIAL CLUB.

FOR GENTLEMEN, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 Bedrooms, 15s. to 22s. 6d. per week, including bath, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

LEGAL NOTICE

AMY JANE DAVIES deceased

Pursuant to the Trustee Act, 1925

NOTICE IS HEREBY GIVEN that all creditors and other persons having any debts claims or demands against the Estate of Amy Jane Davies late of 324 Coldharbour Lane Brixton in the county of London Chemist Druggist and Optician deceased (who died on the 11th day of November 1938 and whose Will was proved in the Principal Probate Registry of the Probate Division of His Majesty's High Court of Justice on the 13th day of December 1938 by Oscar Llewellyn Watkins and John Davies the Executors therein named) are hereby required to send in the particulars of their debts claims or demands to the undersigned the Solicitors for the said Executors on or before the 28th day of February 1939 after which date the said Executors will proceed to distribute the assets of the said deceased amongst the persons entitled thereto having regard only to the claims and demands of which they shall then have had notice; and they will not be liable for the assets of the said deceased or any part thereof so distributed to any person or persons of whose debts claims and demands they shall not then have had notice.

DATED this 15th day of December, 1938.

TIPPETTS, 11 Maiden Lane, E.C.4.
Solicitors for the said Executors.

TRADE MARKS

TRADE MARKS, OWN BRAND NAMES AND DESIGNS, registered in all countries; searches made; opinions given. **TRADE MARKS AGENCY** (established 1890), Monument Station Buildings, London, E.C.4. Mansion House 4443.

AGENCIES

6s. for 36 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

DISTRIBUTING Agents in Germany for some of the best-known British and international proprietaries (general and ethical medicines, dietetics, toilet goods, insecticides) offer unique opportunity to British firms interested in developing business on this important market with a population now of 80 millions; open for new well-advertised lines; complete manufacturing, advertising and distributing service offered; sales organisation covering every county, with local agents, depots, medical callers and window-dressers; highest references; director from time to time in London. Write to Chemisch-Pharmazeutische Fabrik Adolf Klinge, 27-30 Britzer St., Berlin SO 36, Germany.

SITUATIONS OPEN

RETAIL (HOME)

6s. for 40 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

EAST LANCES.—Qualified Assistant, for good-class business. Send details of experience, references, and present salary to 119/2, Office of this Paper.

LADY Assistant, Unqualified, wanted at once, with experience N.H.I. dispensing. State age, experience, references and salary required. Apply, 120/2, Office of this Paper.

QUALIFIED Chemist required as Branch Manager. State previous experience, particularly Window-dressing and Photography, age, salary required, and when free, to Ipswich Industrial Co-operative Society, Ltd., 38 Carr Street, Ipswich. Endorse envelope "Chemist."

QUALIFIED, either sex, required early January for S.E. London; duties mainly Dispensing; salary £4 per week. Apply, giving full particulars and references (snap if possible) to 121/7, Office of this Paper.

QUALIFIED Lady required to manage country business; living accommodation available; state age and experience since qualification. 120/1, Office of this Paper.

UNQUALIFIED Assistant to commence early January; must be smart at Counter and Dispensing. State references and salary. G. B. Osborne, 118 Broad Street, Reading.

UNQUALIFIED Junior Assistant (male) required immediately; excellent experience. Apply, giving full particulars as to salary, etc., photograph if possible, J. H. Meynell, 24 High Street, Bexley, Kent.

WHOLESALE

HIGH-CLASS Manufacturer and Importer of Chemists' Sundries requires Agents with car (age 35-40); references and experience essential; territories vacant: South-west and West England, North-east and Midlands; no objection side line; generous commission; established connexion handed over. 121/12, Office of this Paper.

MANUFACTURERS of ethical preparations, situated 15 miles North-west of London, require Qualified M.P.S. with experience in Advertising, Writing and Lay-out work. Write, giving full particulars, including salary required, to 338/377, Office of this Paper.

SALES Representatives required for disposal of general requirements to Veterinary Surgeons in South London, also in Midland Counties; connexion essential. Apply 338/363, Office of this Paper.

SALES Representative required for Scotland in general requirements of Veterinary profession; connexion essential. Apply, 338/376, Office of this Paper.

SURGICAL DRESSINGS Manufacturer requires Agents for (a) Scotland and (b) Eire; good connexion among Chemists essential. 338/375, Office of this Paper.

TWO Qualified Representatives required early in January by an old-established firm, to call on Doctors, Hospitals and Chemists in provinces; salary £4 10s. per week and travelling expenses; previous experience unnecessary; selected applicants must be prepared to call at London offices for interview if notified. 338/374, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less; 1d. for every additional word, prepaid. (Box No., 1s. extra.)

CHEMIST-OPTICIAN; middle-aged; O.B.A.C.; successful Refractionist; wide agricultural experience; assist or manage; own Optical equipment. 121/11, Office of this Paper.

DISENGAGED, smart Unqualified Assistant (30); good all-round experience; excellent Salesman, Window-dresser; Counter work chief duties preferred; in London. 120/4, Office of this Paper.

EXPERIENCED Assistant desires engagement, married, with or without living accommodation; any district. Andrews, 509 Christchurch Road, Boscombe, Bournemouth.

M.P.S., ex-proprietor, wide experience as manager; Optics, Photography; linguist, good Dispenser, Prescriber, Salesman; keen and energetic; available shortly; seeks post as Manager where ability and hard work appreciated and recompensed. 121/2, Office of this Paper.

QUALIFIED (25), medium height, smart, requires position as Assistant; will go anywhere; excellent reference. Tyrrell, 99 Salutation Road, Darlington.

UNQUALIFIED Male Assistant; disengaged now; first-class Dispensing and Photographic experience; excellent references. "Statim," 83 Ordnance Street, Chatham, Kent.

YOUNG Man (Unqualified), capable, energetic and good appearance; excellent Dispenser and Counter hand; desires change; free three weeks. 121/10, Office of this Paper.

LOCUMS SEEKING ENGAGEMENTS

A. HAWTHORNE, Barton-on-Humber; Locum or Relief; experienced and reliable; available now. Tel. No. 3174 Barton-on-Humber.

LOCUM or emergency; Qualified; any period or distance; all-round experience. J. M. Gregory, 128 Adelaide Road, Hampstead, N.W. Phone: Primrose 6830.

UNQUALIFIED (25), experienced; Locum, relief or permanency; free now; go anywhere. 31 Holmstall Avenue, Edgware.

WHOLESALE

COUNTER Hand and Stock-keeper; Chemicals and Drugs dry department; 22 years' experience; age 37 years; seeks position. 121/4, Office of this Paper.

ESTEEMED, respected and successful for thirty years, Representative/Propagandist; healthy, correct address, car. "Pharmaceutics" Jackson, Rowan Avenue, Boothville, Northampton.

COLONIAL, INDIAN AND FOREIGN

AUSTRALIA.—Gentleman migrating early February open to represent house of sound standing; many years' experience medical propaganda. 121/1, Office of this Paper.

MISCELLANEOUS

10s. for 60 words or less; 1s. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

AMAZING value in Chemists' interior fittings in oak and mahogany, removed from a Pharmacy Fitter, now bankrupt, together with latest type of Counters, Dispensing Screens, Wall-cases, nests of Under-Counter Drawers, Cash Registers, Cash Tills, Safes, Dispensing and Personal Weighers. We cordially invite you to inspect, or send requirements to RUDDUCK & CO., 219/227 Old Street, London, E.C.1.

COLOURED PRINTS (approx. P.C.) from any size Colour FILMS by our special panchromatic copying process. 3 days. 1s. 3d. each net, c.w.o. If satisfied, write for free showcard and posters with 2s. retail specimen.

Speedy D. & P. Ltd., Shelford Place, N.16

MYERS OF OLD STREET, "The Pharmacy Fitters," for Drug Runs, Wall Cases, Counters, Screens, etc. Designs and Estimates free, for Inexpensive and Effective Shopfronts. Send requirements, or representative will call if desired, and estimate at once. Our new Illustrated Catalogue of Pharmacy Fittings is ready. Write for your copy to-day. L. MYERS, 133/5 Old Street, London, E.C.1. Clerk. 6381.

STRONTIUM.—Regular supplies for sale, Strontianite, Carbonate and Sulphate Precipitated, Chloride Crystallised and Anhydrous, Hydrate Crystallised, Hydroxyde Anhydrous Powder, Peroxides, etc. Gignoux Co., Lyon, 20 Cours Morand, France.

£?—COMPLETE CHEMIST FITTINGS at any price you wish to pay. We have erected in our Showrooms a Complete Chemist's Shop with Metal Shop Front, Window Backs, Correct Window Lighting, Signs and Modern Interior Fittings. Apply for Lists. D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

WANTED

SPOT CASH BUYER

- For: SURPLUS STOCKS, DISCONTINUED LINES
- MISCELLANEOUS GOODS, &c.

M. WINRABE, 22 ALDERSGATE ST., LONDON, E.C.1

DISTANCE NO OBJECT.

PHONE: NAT 1091, 2120

SHOPS ACTS, 1912-1936

You will avoid trouble and a good deal of worry by ensuring that the provisions of this new legislation are complied with.

To comply with legal requirements cards must be exhibited in the interior and exterior of the shop when serving customers after hours on week days, early closing days and Sundays.

Card "A" must be exhibited when open on Sundays and

SHOPS (SUNDAY TRADING RESTRICTION) ACT, 1936

**THIS SHOP IS OPEN ON SUNDAY
FOR THE SALE OF
MEDICINES & MEDICAL AND
SURGICAL APPLIANCES
FROM**

Depth
11 in.

Width
14 in.

CARD "A"

Card "B" for other days in the week.

SHOPS ACTS. 1912-1936

**THIS SHOP IS CLOSED
FOR TO-DAY EXCEPT
FOR THE SALE OF MEDICINES
AND MEDICAL AND
SURGICAL APPLIANCES**

CARD "B"

The various enactments affecting the Drug Trade are detailed on the reverse side of the Cards.

The Cards are printed on stout board, 14" x 11", and are corded for hanging purposes.

Price **1/-** each

2 for 1/9 4 for 3/6

Complete the order form below and supplies will be sent to you by return of post.

ORDER FORM

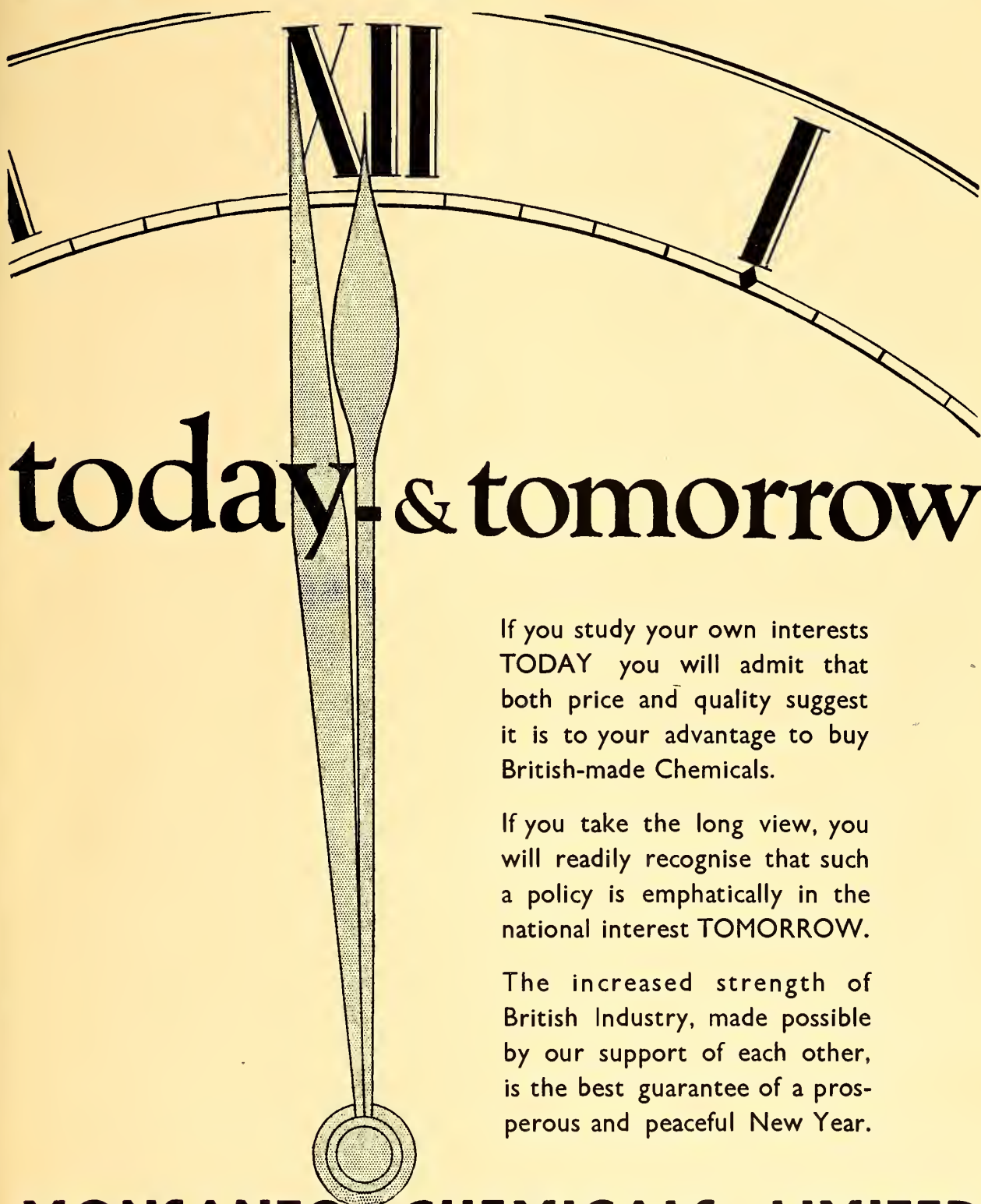
To The Publisher . . . The Chemist and Druggist, 28 Essex Street, Strand, London, W.C.2.

Please forward me post free

.....SHOPS ACTS CARDS (A)
....." " " (B)
for which I enclose.....value.....

NAME.....

ADDRESS.....



today - & tomorrow

If you study your own interests TODAY you will admit that both price and quality suggest it is to your advantage to buy British-made Chemicals.

If you take the long view, you will readily recognise that such a policy is emphatically in the national interest TOMORROW.

The increased strength of British Industry, made possible by our support of each other, is the best guarantee of a prosperous and peaceful New Year.

MONSANTO CHEMICALS LIMITED

VICTORIA STATION HOUSE, VICTORIA STREET, LONDON. S.W.1

Works: Ruabon, North Wales; and Sunderland



"National" Dispensing Bottles

are Strong, Serviceable and Sure-sealing!

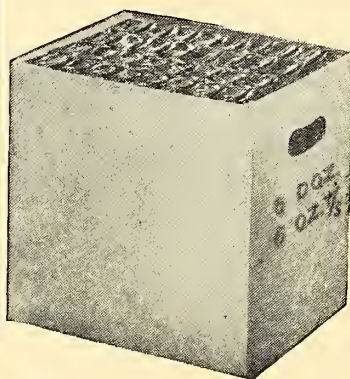
NEATLY PACKED IN 6 DOZEN
NON - RETURNABLE CARTONS

- ★ CONVENIENT IN SIZE
- ★ EASY TO HANDLE
- ★ UNIFORM IN QUANTITY

ALSO . . . Cork mouth Bottles
WASHED & PAPERED
Screw mouth Bottles
WASHED & CAPPED

SCREW CAPS SUPPLIED in

WHITE - ENAMELLED TIN PLATE
WHITE - ENAMELLED ALUMINIUM
BLACK BAKELITE MOULDED



Vials

HAVE YOU GOOD STOCKS OF
"NATIONAL" VIALS?

Ranging in size $\frac{1}{2}$ oz. up to 3 oz.
Plain or teaspoon graduations
Medium & tall types

MANUFACTURED IN BEST QUALITY
WHITE FLINT, AND PACKED IN FREE
NON-RETURNABLE CARTONS



May we advise Name and Address of nearest "NATIONAL" distributor?

NATIONAL GLASS WORKS (YORK) LTD.

'Phone: HOLborn 2146

First Avenue House, High Holborn, London, W.C.1
(WHOLESALE ONLY)

WORKS:
FISHERGATE YORK